

# NASA

# the JOURNAL

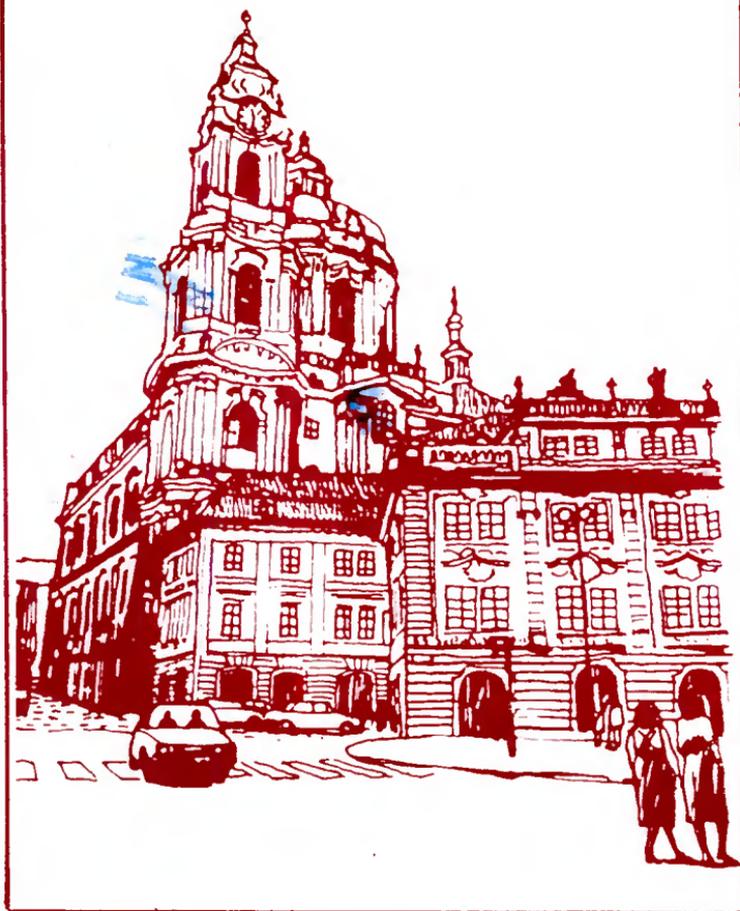
NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXII, Number 3

March, 1992



## RADIO PRAHA

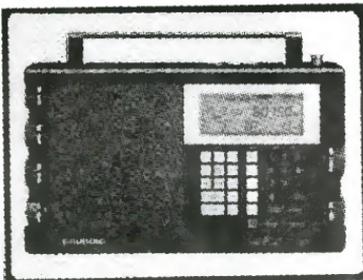


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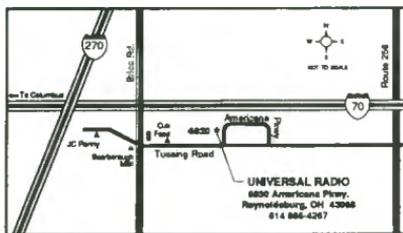
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# NASWA Notes

Bob Brown KW3F  
238 Cricklewood Circle  
Lansdale, PA 19446  
CompuServe 74756,1557  
Genie R.BROWN106  
Packet KW3F @WB3JOE



**H**ow ya doin? I've been pretty busy the last couple of weeks getting things ready for the Winter SWL Fest. By the time you read this it will be happening or just over. We'll have a full report next month on the Festivities. From the registrations it looks like we are going to have a bunch of new people attending this year. I really like that part of the Fest, meeting new people. If you like to do that too and can't get out here because of the distance or economics you should get some kind of local gathering together. Write to me and I'll tell you how to do it. I'll send you a listing of NASWA members in your area to contact.

## Clandestine Activity Survey 1991

During the past 12 months the activity of clandestine stations on shortwave has decreased by 9.5%. The present number of weekly broadcasting hours is 2066, compared with 2284 hours at the same time last year. This is the result of the latest Clandestine Activity Survey which has been compiled by Mathias Kropf annually since 1986.

Contrary to previous years, there is a similar trend on all continents. Activity to Asia has decreased by 3.8%, to America by 4.1% and to Africa even by 32.0%

The number of active target areas has decreased from 27 to 26, but there were actually more changes than this figure would suggest: Clandestine broadcasts to Libya, Somalia, Chile and Sri Lanka have stopped during the past year, while India, Taiwan and Mocambique were new entries in this year's survey.

The biggest changes from last year are reported from the Middle East, where clandestine broadcasts to Iran, Iraq and Saudi-Arabia were in a big fluctuation after the end of the Gulf War.

Cuba remains the most active target area

with 405 weekly broadcasting hours, followed by Iran with 302 and Iraq with 180 hours. Clandestine broadcasting to Ethiopia and Saudi-Arabia, which both appeared in the "Top 3" last year, dropped significantly.

Thanks to Mathias Kropf for this information. For further information please write to: Mathias Kropf, Clandestine Monitoring & Research, Mähr.-Schönberger-Str. 9, D-6430 Bad Hersfeld 1, Federal Republic of Germany. FAX +49 (6621) 15282

## Dayton Hamvention

The largest radio event in North America, the Dayton Hamvention, will be held at the Dayton Hara Arena Friday, April 24 through Sunday, April 26, 1992. Now in its 41st year, the Hamvention is a showcase for radio dealers and manufacturers. The thing that I enjoyed the most on a recent trip to the Hamvention was the flea market. With over 1,000 tailgaters and flea market vendors you could spend your entire weekend just looking for radio bargains.

ANARC will have a booth at Dayton and they will also host an SWL forum on Sunday featuring the NASWA's voice on Signals, Steve Forest. Bob Grove from Monitoring Times will also speak.

Check this month's calendar for the infor-

### 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)

Our Motto Is - "Unity and Friendship"

mation telephone numbers for Dayton. Three day admission is \$10.50 in advance and \$14 at the door. Hotel/motel rooms are at a premium. It's not unusual for the closest available room to be 45 minutes from Dayton. If you are interested in going I suggest you start searching for a room immediately.

## Drake SPR-4 International Club

This month I received a sample copy of a new newsletter from the Drake SPR-4 International Club. The main purpose of this group is to establish a network of SPR-4 users to help each other find parts, trade

technical data, share modifications and trade stories about the Drake SPR-4 receiver. If you'd like a copy of the newsletter send a request with a couple of stamps to help with return postage to: Drake SPR-4 International Club, 5210 14th St. W. #11, Brandon, Florida 34207.

## African Destinations

Premiering this month is our new African Destinations editor, Bill Kurrasch. Welcome Bill!

## Musings

**John Lyon W9LHG, White Bear Lake, MN**

A note about our Tropical Band Loggings editor, Sheryl Paszkiewicz. In two years as a NASWA member, I've always turned to her column first. Even before I submitted any loggings, I was impressed with her performance. She encourages first timers, but most columnists do that. Then it gets interesting. Each month, she has dozens of us tropical nerds competing for space, bombarding her with loggings. After a few months, she has a pretty good idea of where most of us are in skill level. What is ho-hum boring for a veteran is an exciting first log for a beginner. Sheryl does an excellent job a giving each person a chance to be heard, while still managing to stroke the egos of the veteran DXers. I commend her people sensitivity and fairness in a hobby that always needs more. A bravo job by an outstanding lady.

Oh, and the new cover. A hearty pro vote on the new Journal cover. A major improvement over the old sterile one. Now, if we could just do something about the generic name of the publication. How about D LAYER DWEÉBS, or TUBE TRAMPS, or ETERNAL DUCT-ING?

**Richard A. D'Angelo, Wyomissing, PA**

After last October's very successful DXpedition to Gifford Pinchot State Park (south of Harrisburg in central PA) Dave Valko, Hans Johnson and I got the "urge" to do it again. We couldn't wait until next October so on February 7, 8 and 9 the second Gifford Pinchot State Park DXpedition was held. Joining us in the quest for the ultimate in DXing was Fred Kohlbrenner and Larry Yamron (accompanied by his eight year old son, Sam).

As I arrived at the cabin around 1500 local, Dave, Hans and Fred were busy stringing up antennas. As sunset approached signals from South East Asia began to appear. For me, this is the highlight of the DXpedition since afternoon Indonesians are very rare in Wyomissing (I think it is some sort of Borough ordinance that prevents reception from this part of the world in Wyomissing, hi!). Conditions remained favorable for most of the weekend. On Saturday a solar disturbance enhanced reception from Indonesia in the afternoon with some truly outstanding reception noted on 3,265 kHz from RRI Bengkulu. Around 0400, we experienced superb conditions from Africa with a number of stations noted from Zaire. However, as the Africans faded out so to did our favorable conditions. The hope for bonanza of Europirates never materialized and Sunday morning reception from Latin America was only fair. Nevertheless, we did a great job of stuffing our logbooks. Hopefully this should hold us until next October.

A few items worth noting. Sam Yamron has more DX staying power than his rapidly aging father. While Larry sacked out on the sofa, Sam busily twirled the knobs of a Sony 2010 with interesting results. Now, if he can only teach his father how to keep his eyes open while the receiver is on...

Also, Hans Johnson has given up Oreos cookies. The cookie folks have had to cut back the work shifts to make up for this unexpected loss of sales!

From what I hear the Winter SWL Festival should be a blockbuster. I hope to see many of you there.

73 - RAD

**Mike Agner KA3JJZ, Glen Burnie, MD**

I run an SWL Net on our local repeater system called the "Listening Post". The net is on Sunday evenings at 8PM local time on the W3DID repeater system. Frequencies are 147.03, 224.96, and 443.40 Mhz. The net can be heard throughout the greater Baltimore area. Please use the following address for all net contributions: 6720-F Ritchie Highway #236, Glen Burnie, MD 21061.

## ANARC News



Paul Swearingen from the National Radio Club (NRC) and Paul Wakefield from SPEEDX have been appointed as their clubs new ANARC representatives. Paul Swearingen is Editor/Publisher of the NRC's "DX News" bulletin. Paul Wakefield edits the Africa column in the SPEEDX bulletin.

ANARC has a newly formed Advisory Panel and the first two members of that panel are Don Jensen and Gerry Dexter. Don was the founder and first Executive Secretary of ANARC and Gerry succeeded Don as Executive Secretary.

Congratulations to Le Club Ondes Courtes du Québec (COCQ) on the anniversary of the publication of their 200th edition of "L'ONDE."

Stew MacKenzie and the American Shortwave Listeners Club (ASWLC) have been welcomed back into ANARC.

Congratulations to Reuben Dagold (ADXR), Bill Oliver (LWCA) and Bob Brown (NASWA) on being elected to two year terms of Executive Council. Their terms will expire on 31 December 1993. Fourteen of the sixteen ANARC clubs submitted votes in this election. It should be noted that the terms of the other three members on the Executive Council expire at the end of 1992. These seats are currently being filled by Kirk Baxter (A\*C\*E), Dave Marshall (AOSC), and Don Moman (CIDX). Concurrent with the election for ANARC Executive Secretary, an election for these three seats will be held in October. Nominations are now being accepted at ANARC headquarters. As per the ANARC constitution, Executive Council members must be the ANARC club reps.

Executive Council has fixed the annual assessment of dues at US \$8.00 per hundred members or fraction thereof for the fiscal year commencing 16 April 1992. All club dues are due at headquarters by April 15.

ANARC will be producing an ANARC newsletter that will be distributed to all the clubs and "selected others". It will also be distributed electronically via computer bulletin boards and service networks. Clubs will be reproducing news from the ANARC newsletter in their bulletins for the benefit of their members who don't have access to the computer networks.

Fourteen of the sixteen ANARC clubs submitted ballots for the annual ANARC awards. The awards for Shortwave DXer of the Year, Utility Band DXer of the Year, and International DXer of the Year will be awarded at the Winter SWL Festival.

The Winter SWL Festival scheduled for March 13-15, 1992 will be ANARC's official Winter meeting. An Executive Council meeting will be scheduled since it appears that 6 of the 7 members of Council will be present. There will also be a Club Representatives meeting on Saturday.

Special thanks to Dave Marshall for volunteering to represent all the ANARC clubs at the Dayton Hamvention scheduled for 24-26 April 1992. This will be ANARC's official Spring Meeting and there will be an ANARC meeting on Saturday. Also, Dave is developing a program for Sunday morning.

The North American DX Championships is a shortwave broadcast contest that was founded and sponsored by Numero Uno and Fine Tuning. Its Administrative Committee consisted of DXers from those organizations. With the recent changes of ANARC, NU and FT have generously donated this contest to ANARC. Harold Cones has been the Chairman for the last three years and will continue in that capacity.

Harold plans to announce the contest during the summer months with this year's event to be held in September to coincide with the beginning of the DX season. Trophies will be given to the top three finishers and certificates will be issued to all contestants. Harold has even managed to get some of the hobby vendors to donate prizes too. This year's event promises some surprises. More from Harold as we get closer to the contest.

Recent correspondence with SPARC Secretary Arthur Cushen indicates ANARC and SPARC have not had any meaningful communications in years. However, Arthur remains very supportive of ANARC.

He mentions that clubs in the South Pacific region are having trouble maintaining membership numbers with the competition from computer, satellite and other means of communication. The New Zealand Radio DX League has maintained a 500+ membership with DX Australia, New Zealand DX Radio Association and Southern Cross DX Club taking SPARC membership over the 1,000 mark. The Auckland Branch will take over the administration of the New Zealand Radio DX League at the end of their fiscal year end at 31 August 1992. Cushen's Wellington Branch has operated the club since 1972.

Rich D'Angelo mentioned the possibilities of expanding the North American DX Championships and inviting SPARC and EDXC (European DX Council) to join in sponsoring a "World Championship". Cushen seemed interested and said that he would bring this up at the SPARC convention later this year.

SPARC will be holding a convention at Portland Victoria over the Australian Queens Birthday Weekend of 5-8 June 1992. The 1990 convention was hosted by the NZRDXL and was attended by over 50 hobbyists.

## **The Pirate Radio Directory**

By NASWA member, George Zeller, the 1992 Fourth Edition is now available! Profiles 170 North American pirates (a new activity record) that were active in 1991, w/index to 167 stations on in 1988-90 that were profiled in the first 3 editions but were inactive in 1991. IDs, freqs, times, formats, interval signals, programming, bust news when busted, addresses, QSL record, etc. Dozens of illustrations \$9.95 + \$2 (US), \$3 (elsewhere) shipping to Tiare Publications, P.O. Box 493, Lake Geneva, WI 53147

## Calendar Of Events

- Mar 17** - Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. Contact Mike Fanderys (216) 661-2443
- Mar 20** - Meeting, Boston Area NASWA Chapter, GTE Labs, Waltham, Mass. For additional information please contact Paul Graveline (508) 470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- Mar 20** - Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Apr 24-26** Dayton Hamvention, Hara Arena, Dayton, OH. General Information: (513) 454-1456, Lodging Info: (513) 223-2612
- May 15-16** The Third Annual "Conrad Family Reunion" (A.K.A. "Radio Retreat") at the River View Hotel, 1015 & 1016 River Rd., Wisconsin Dells, Wis. SASE to Jim Conrad, 545 Kirkwood Ave., Waterloo, IA 50701 for complete info.

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

## Welcome to the following new NASWA members -

- |  |   |
|--|---|
| <b>John D. Arduino</b> , Newton Highlands, MA      | <b>Stephen Marton</b> , Northampton, PA       |
| <b>Bill Bergadano</b> , East Freehold, NJ          | <b>Roman Mazur</b> , Woodlyn, PA              |
| <b>Thomas J. Bittner</b> N2ONK, Pearl River, NY    | <b>W. R. McIntosh</b> , Granada Hills, CA     |
| <b>J. C. Boglovits</b> , New Cumberland, PA        | <b>Denis McLaughlin</b> , Minneapolis, MN     |
| <b>John K. Bondurant</b> , Frankfort, KY           | <b>Glenn Meng</b> , Stone Mountain, GA        |
| <b>Rev. George Brown</b> , C.M., Philadephia, PA   | <b>Ronald L. Meyers</b> , Pittsburgh, PA      |
| <b>Kenneth D. Burton</b> , Los Altos, CA           | <b>Raymond Miller</b> , Prescott, AZ          |
| <b>A. F. Calvert</b> , Arlington, VA               | <b>Phillip H. Mourey</b> , Camarillo, CA      |
| <b>David J. Card</b> , Rialto, CA                  | <b>Glenn J. Mueller</b> , Pacific, MO         |
| <b>Andrew Carson</b> , Wycombe, PA                 | <b>John A. Murphy</b> , Northfield, NJ        |
| <b>James C. Clar</b> , Rochester, NY               | <b>Stephen M. Murphy</b> , Eastpointe, MI     |
| <b>David E. Cohen</b> , Mt. Prospect, IL           | <b>Mike Nagel</b> , Columbus, IN              |
| <b>Thomas D. Collins</b> , Columbus, OH            | <b>Vern Nicholson</b> , Toronto, ONTARIO      |
| <b>Terry A. Conboy</b> N6RY, Renton, WA            | <b>Bob Perkins</b> , Casa Grande, AZ          |
| <b>Steve Crajn</b> , Derby, KS                     | <b>George Phillips</b> , Norman, OK           |
| <b>Shawn Daniels</b> , St. Louis, MO               | <b>Steve Price</b> , Belleville, MI           |
| <b>Sam Dellit</b> , Pimpana, Queensland, AUSTRALIA | <b>Karl Racenis</b> , Livonia, MI             |
| <b>Mr. Tracy Doane</b> , Miami, FL                 | <b>Bill Riches</b> , Cape May Court House, NJ |
| <b>R. M. Dunville Jr.</b> , Hatteras, NC           | <b>Richard Romeo</b> , Chappaqua, NY          |
| <b>Henry L. DuRant</b> , Columbia, SC              | <b>Daniel Rosenzweig</b> , Staten Island, NY  |
| <b>Miss Jodi "Vasquez"</b> Ellerbe, Detroit, MI    | <b>Larry Ross</b> , Havertown, PA             |
| <b>Jim Foley</b> , Oak Lawn, IL                    | <b>Gregory W. Rowan</b> , Needham, MA         |
| <b>Kenneth C. Glade</b> , Mahwah, NJ               | <b>Jim Rustik</b> , Kent, WA                  |
| <b>Nick Grace</b> , Harvard, MA                    | <b>Emil Schwitzer</b> , Edison, NJ            |
| <b>SSGT Vincent R. Havrilko</b> , APO, AE          | <b>Fred Shabec</b> , Norfolk, VA              |
| <b>Ken Josephic</b> , Irwin, PA                    | <b>Gene Shay</b> , Penn Wynne, PA             |
| <b>James E. Keely</b> , Cincinnati, OH             | <b>Alexis Torres</b> , Aguadilla, PR          |
| <b>T. C. Kunz</b> , Houston, TX                    | <b>James Walters</b> , Portland, OR           |
| <b>Marie Lamb</b> , Brewerton, NY                  | <b>William D. Warren</b> , Royersford, PA     |
| <b>Ron Larrick</b> , Vallejo, CA                   | <b>T. Lawrence Way</b> , Hanover, PA          |
| <b>Frederick Lindstrom</b> , Chicago, IL           | <b>Tammy Wells</b> , Alfred, ME               |
| <b>Steve Lofman</b> , Mansfield, CT                | <b>Christopher Wiemert</b> , Santa Clara, CA  |
| <b>Clinton Lower Jr.</b> , Conowingo, MD           | <b>George Winkler</b> , Boone, NC             |

# DXer's Forum

Please submit all contributions to:  
**Bob Brown KW3F**  
238 Cricklewood Circle  
Lansdale, PA 19446  
CompuServe 74756,1557  
GEnie R.BROWN106  
Packet KW3F @WB3JOE

This month Dave Clark brings us to the final installment of his fine series on covering the Tropical Bands. Thanks to the efforts of Charles Bishop and Tom McMahon we have the first of a multi-part report on the Smithsonian lecture series entitled "International Broadcasting In A Changing World". NASWA Equipment Reviewer Alan Johnson tells us about some new filters that can help those of you who are plagued by interference from your local MW broadcast station. Finally, Rich D'Angelo reports on VNG, Australia's Standard Frequency & Time Signal Service. **Attention NASWA Members!** I need your articles to keep these pages full! Of particular interest are DXing tips and techniques, station profiles, antenna construction articles, and anything else related to DXing the shortwave bands.

## The 120 Meter Tropical Band

by David M. Clark

This is the fourth and last of our mini-surveys of the Tropical Broadcasting Bands. In the January column we took a look at the 60 meter band, then in February we discussed both the 75 and 90 meter bands. You might care to refer to the discussion of ionospheric absorption at low shortwave frequencies (viz 90 meters) in last month's DXers Forum as this time we consider the lowest of the shortwave broadcast bands, 120 meters (defined as 2.300 - 2.495 MHz - although some stations operate on the high side of WWV/WWVH which are found on 2.500).

Beginning with Central and South America, there are a couple of Guatemalan stations that are usually heard best during winter evenings, and a Mexican on 2390 (co-channel with Guatemala) that is usually best at 1200 sunrise - in the winter. A number of low-power Brazilians are active and there are two times to listen for these: early evening, within an hour or so after sunset and again, at their morning sign-on times between 0700 and 0800. Since much of Brazil is east of Ontario, note that sunrise at the transmitter is later during our summer months. This is actually the only time when you are likely to the Brazilians with sign-on times later than 0800.

The Falkland Islands Broadcasting Service used to be an exotic DX catch when the station was operating on 2380 kHz (as well as on 75 meters) - the 120 meter channel was

heard by a few lucky DXers, usually around sunset. Unfortunately, FIBS has been off shortwave for several years now and there are no plans to return to shortwave.

There are several medium wave harmonics of stations to our south that are often audible on the band. Some folks consider these to be worthy DX catches because the relative power is likely a small fraction of the transmitter output on the fundamental frequency. Be aware, however, that most clubs, including NASWA, traditionally have refrained from considering harmonics in the shortwave spectrum as legitimate catches for purposes of your SWBC country-counting totals. Nonetheless, if you'd like to try your hand at DXing medium wave harmonics, two of the best bets within the 120 meter band are the second harmonic of the Santo Domingo (Dominican Republic) station on approximately 2441v (2 x 1220); another being the third harmonic of Radio Paradise (St. Kitts & Nevis), quite regular on 2475 in the mornings (3 x 825).

The South Pacific offers several good DX targets with many more (from Papua New Guinea) in the offing! The Australian Northern Territories Service on 2310, 2325 and 2485 is heard often towards sunrise, especially during the fall, winter and spring periods. It is interesting that this "Shower Service" uses a form of high angle ("vertical incidence"

radiation that was intended to concentrate the transmitters' skywave energy domestically so as to provide optimum reception within the Territories. The fact is, the stations can be heard worldwide with relative ease - at sunset in Europe and at sunrise in North America.

There are a few low-power Indonesians still operating on 120 meters but they are extremely rare catches except near the West Coast. The prize DX catch among these is RRI Cirebon (Jawa) on 2390 kHz. John Bryant and I were startled to hear this station while DXing on Lopez Island (Washington State) one quiet morning in July several years ago!

The greater opportunity for DXers in Eastern North America relates to the Provincial stations of Papua New Guinea. There is one such station, Radio Enga-2410 kHz, currently active on the band. If the Australians are showing well near your sunrise, be sure to check 2410! Reception in Ontario and elsewhere in Eastern North America is best near the spring and fall equinoctial periods when the tropical zone "sweet spot" lies directly over PNG and Irian Jaya. Radio Enga can be heard at times through the winter months as well.

Four years ago, the National Broadcasting Commission of PNG announced a new frequency plan that would have a number of the Provincial stations now operating on 90 meters return to the 120 meter band with their upgraded 10 kW transmitters. The plan is still up for discussion with a number of international regulatory bodies but perhaps there will be some developments in the not too-distant future...I trust Gordon Darling, our friend and correspondent in Boroko (PNG) will keep us abreast! Last spring, Cedric Marshall and I noticed Radio West New Britain signing off at 1300 on more than one occasion with a frequency announcement citing 2435 kHz (their destination channel of 120 meters) even though they continue to operate on 3235.

Lastly, the mid-winter season brings morning reception of several of the Chinese Regionals which remain active on this band. Fujian PBS-2339.8, Jiangxi PBS-2445 and Zhejiang PBS-2475 are the best bets. There

are no Sub-continental stations operating on this band.

A final word about 120 meter propagation - remember that ionospheric sunrise may occur a half-hour or more before ground sunrise at your location (depending on latitude). Daytime (D layer) absorption is evident first on the lower frequencies. Thus, dawn enhancement of South Pacific/Asian stations on 120 meters usually peaks a little before actual (ground) sunrise, whereas "maximum dawn" enhancement on the other Tropical Bands will be extended proportionally longer as you work up through 90 and 75 meters with latest fadeouts occurring on 60 meters.

## Tropical Band Station References

The three primary sources for hobbyists are the well-know **WORLD RADIO AND TV HANDBOOK** and **PASSPORT TO WORLDBAND RADIO**, the 1992 editions of which are both currently available, as well as the superb **TROPICAL BANDS SURVEY**, published each May by the Danish Shortwave Clubs International.

Latin American specialists will want to consider **LATIN AMERICAN RADIO WORLD**, the third edition of which was published last August by Argentine DXers Julian Anderson and Gabriel Ivan Barrera. Finally, for those interested in the challenge of DXing the beguiling and romantic islands of Indonesia, might I recommend the comprehensive **SURVEY OF SHORTWAVE BROADCASTING ACTIVITY IN INDONESIA**, published by Fine Tuning's Special Publications. The 1992 edition, completely revised and updated by John Bryant and myself, has just been released.

I would be glad to assist any member who requires assistance in determining sources/pricing information for any of the aforementioned publications. Good DXing on the Tropical Bands!

*Ed. note - You can contact Dave either by mail at RR #3, Newmarket, Ontario L3Y 4W1, or via Compuserve 71311,2677*

*The Smithsonian*  
**CAMPUS**  
ON THE **MALL**

**International Broadcasting In a Changing World**

A Report on the Smithsonian Forum on the Media and Society, held in collaboration with Voice of America

*This is the first in a series of reports filed exclusively with the NASWA Journal by NASWA Washington, DC area members Charles "Chip" Bishop and Tom McMahon.*

January 16 and 23, 1992  
Washington, DC

By Charles "Chip" Bishop

They opened a kind of time capsule at the Voice of America (VOA) headquarters in Washington, D.C. January 16, launching the 50th anniversary celebration of the nation's international shortwave radio beacon.

The scene was the first in a series of six panel discussions under the banner, **"International Broadcasting In A Changing World: Who's Talking? Who's Listening?"** The series is sponsored by the Smithsonian Institution's Resident Associate Program.

It was not unlike old timers' night at the ballgame, as living legends from VOA's five decades gathered before a full house of fans to honor what VOA Director Chase Untermeyer called "a national treasure". "The anniversary", he said, "is an opportunity to tell the American public what the rest of the world knows well". The irony he mentioned stems, of course, from the prohibition against intentional VOA broadcasts to Americans.

VOA's audience lives elsewhere on the globe, certainly tens of millions, perhaps hundreds of millions who tune in to broadcasts in 46 languages, according to Alan Heil, VOA's deputy director of programs and 30-year Voice veteran. Heil guided his panelists through a 90-minute retrospective of events that gave rise to VOA during World War II, on through its inaugural broadcast to Nazi

Germany February 24, 1942, to tomorrow's promise of broadcast signals beamed directly to listeners' radios via satellite. "The 1990s could be the decade of the greatest growth of international broadcasting," said Heil. "Now, the pace of change is dizzying. Technology, content and listeners' desires are changing."

But the outlook of the first panel discussion was clearly backward, to the weeks following Pearl Harbor when VOA transmitted from a single studio in New York City. Twenty-four hours a day, seven days a week, VOA spoke in the languages of the European combatants, English, German, French and Italian, in rotating quarter hour segments.

Former diplomat Walter Roberts, a VOA writer-editor between 1942-1950, credited the Bolsheviks in 1917 with being the first to issue broadcasting to achieve political aims when, he said, they "openly invited others to revolt against their government". Historian and author Holly Cowan Shulman said that the themes of VOA's 1942-44 broadcasts to Europe were "agitation and resistance". But by 1944, when the path to Allied victory became clear, programs became more information, she said. After the war, President Truman sealed VOA's future with a decision to sustain it indefinitely. His successor, Dwight Eisenhower, placed it under the wing of the U.S. Information Agency, USIA.

It was in the 50s, said former VOA Director Henry Loomis, that the Voice found its voice, defined its mission and achieved stability. Its audience targets, he said, were people abroad who were "culturally curious," U.S. and third world embassies, foreign monitoring services and in times of crisis, Americans overseas.

Thereafter, Loomis recalled, the "first big flap" was whether VOA should emphasize English-language broadcasts or speak

primarily in foreign tongues. "The 'no's' said we should speak to foreigners," he said. "The 'yes's' demanded communication in our language. Ultimately, English won out because people spoke English everywhere in the world."

Former senator and Foreign Relations Committee chairman Charles Percy (R-IL) recalled the need for a charter to cement the agency's mission into law. In its congressionally-approved charter, VOA was charged with being the source of accurate and objective news, representing all of America, not just segments of the nation, and presenting opinion reflecting the policies of the U.S. "We gave them what they needed, to fight for the (international broadcasting) market," he said.

The future perspective belonged to Douglas Boyd, dean of the University of Kentucky's College of Communication. He reflected on changing technology, the evolving needs of the listener population and new methods by which broadcast signals are delivered. "How ironic it is that today, we have old transmitters and new radios," he said.

Professor Boyd noted that people abroad have less time today to consume international broadcasting. There are more local media, more books and newspapers to read and more competition from information sources such as video cassettes and CNN, he said. Boyd said the future rests with "local placement" of VOA programming on FM and medium wave stations, satellite delivery of signals and direct transmission from satellite to listener.

The evening's most provocative moment came when former VOA news director Bernard Kamenske rose from the "front row" of dignitaries to charge VOA with a "tremendous error" in failing to accurately relate the dimensions of the Holocaust to its listeners. Ms. Shulman said the issue was explosive at the time. "I think the people in VOA were very concerned with the impact of talking about Jews to France, afraid that the French would turn off VOA as 'Jew-loving', and that that would be the end. To use it would have backfired against VOA," she said.

"VOA," Kamenske countered, "should be an alarm bell for civilization; our broader purpose is the purpose of civilization". Later,

in an interview, Kamenske said he believes VOA has a responsibility to closely monitor current world events with a potential for catastrophe such as the ethnic war in the former Yugoslavia, and political repression in China and Burma.

The student-led, pro-democracy movement in mainland China took center stage January 23 in the second symposium. Under moderator Fred Barnes, it examined the role of radio in bringing information to anti-Communist revolutionaries.

International radio played "a shaping role" among students in the immediate years leading up to the massacre at Tiananmen Square June 4, 1989, said Shen Tong, one of the founders of China's ill-fated democracy movement. "Chinese youth heard the call through broadcasting," he reported. After confronting Chinese troops near the square, Shen Tong went into hiding for a week until he could escape to the U.S. Today, he travels widely promoting human rights in China, and he studies graduate-level political science at Boston University.

Shen Tong painted a stark picture of events in China in 1989 for another packed house at VOA headquarters. "Chinese elders closed their doors and pulled the curtains down to listen to international radio," he said. "Then they sat around and shared what they heard with others." The young revolutionary also said that VOA and other shortwave broadcasters served as a feedback system for students. "They didn't know who else knew of their actions. Students were assigned to listen and report back," he said.

That view was echoed by correspondent Betty Tseu who carried VOA microphones into Tiananmen Square. "Are the demonstrations being reported accurately?," students asked of her, she said.

Radio's influential role was echoed by New York Times correspondent David Binder whose "dream assignment" was roving through central and eastern Europe during the upheavals of 1989. "The cross-border phenomenon had an incredible effect," he said. "Like wild fire, the word of the embassy escapes of East Germans to Hungary and Czechoslovakia spread by radio from capital to capital." Binder said radio was a major factor as well in anti-Communist revolutions in Poland, Romania, and elsewhere.

VOA Russian Service correspondent Lucy Flam related that she spotted a scrawl on a barricade in front of Russia's White House during last August's anti-Gorbachev coup attempt. "VOA - thank you for truthful information," it read. Today, she reported, some of the old Soviet jamming transmitters are used by new, free radio stations. "One in Volgograd re-broadcasts the Voice of America," she said.

Former Soviet dissident and current human rights activist Yuri Orlov reported that during the dark days of repression Russians would often whisper among themselves, "Did you listen to the voices?" They meant, he said, the Voice of America and other international broadcasts which provided "one of the main, if not the main interactions within the movement of dissidents".

USA Today's senior diplomatic correspondent Johanna Neuman sparked

debate when she answered a question she had posed: "Why was radio such a vital element of revolution?"

"It is because it had grown up," she claimed. "In the 1980s, foreign radio became more journalist than government. In 1958 in Budapest and in 1968 in Prague, VOA was opinionated. It tried to foment revolution then. Radio encouraged them (the anti-Communist insurgents) and let them down." That brought former VOA news director Kamenske out of his "front row" chair again. "That's bunk," he replied, "there were two investigations then that showed that a call to uprisings did not occur. (Our) being too bland might have been closer to the mark," he claimed.

*Coverage of the Smithsonian series will continue next month.*

## Northwest Communication Laboratories MODEL 200 Broadcast Interference Filter

*Reviewed by: Alan Johnson*

Mr. Bob Cosentino (WB6AGE), owner of Northwest Communication Laboratories, was kind enough to donate two of his products for use as door prizes at the 5th Winter SWL Festival. More importantly, he sent them to me first for an evaluation. (Yes, they will be at the Fest!).

### FilterBasics

Filters are devices which are designed to reject a certain range of frequencies. They can be active, consisting of transistors or IC's, which are usually used for audio applications, or passive, consisting of a network of inductances and capacitances, which are used for RF purposes or speaker crossover systems. Filters are usually designated by the range of frequencies that they allow to pass without attenuation, i.e., a high-pass filter allows frequencies above a chosen frequency through (this is referred to as the passband) and rejects frequencies below. A low-pass filter has the opposite action. The frequency at which the filter begins attenuating is called the cut-off frequency. Other filter parameters of importance include attenuation, response curve, passband ripple and insertion loss. Attenuation is a measure of to what degree the unwanted frequencies are reduced in amplitude relative to the desired frequencies. This usually expressed in decibels (dB) by the following formula:  $dB = 10 \log(\text{amplitude wanted} / \text{amplitude unwanted})$ . No filter is perfect, i.e. attenuation is never infinite - some of the undesired signal gets through. An attenuation value of 40 dB indicates that the unwanted signal is 10,000 times weaker than the desired signal in the filter output. The response curve is a measure of how quickly maximum attenuation is reached beyond the cut-off frequency. Ripple refers to any variation in the amplitude of the signals within the passband. Ripple is usually tied to response curve - filter designs which have a steep cut-off tend to have more ripple. Insertion loss is a measure of how much the signal is reduced due to losses within the filter itself.

### The NCL Filter Series

Northwest Communication Laboratories (NCL) now offers two filter models of interest to the radio listener. These filters are designed to reduce interference due to local MW (AM broadcast band) stations. Even though the frequencies of MW broadcasters are removed from the SW bands,

they are still being picked up by your antenna and are transferred to the front end of the receiver where all kinds of strange things can happen. These unwanted signals can cause a loss of sensitivity to weak signals, they can overload the circuitry so that your local MW stations appear all over the SW dial or they can appear on top of the weak station you're trying to copy due to cross-modulation. By filtering these signals out of the antenna lead-in before they reach the receiver, they are much less likely to cause problems. NCL offers two models of Broadcast Band Interference filters: the Model 100 is a low-pass design with a cut-off frequency of 530 kHz designed for the longwave listener and the Model 200, a high-pass design with a cut-off of 1700 kHz, which is of interest to the SWL. Each filter is enclosed in a 4 1/4 x 3 3/8 x 1 1/4 inch diecast aluminum enclosure with SO-239 coax connectors (other types of connectors are available as options) at each end. The components inside are sealed in silicone for weather-proofing and the enclosure is black in color. The filters are designed to work with a 50 ohm input and output impedance. The filter design is a six section Chebyshev design, which ensures a very steep cut-off slope, albeit at the expense of some ripple, and high attenuation. The manufacturer states a minimum attenuation of 40 dB. Included with the filters is a six page instruction manual which is very thorough in describing installation details such as what to put first if an external antenna tuner or pre-amp is used. The units also come with a 12 month warranty, although I don't think you'll need it, since the quality of construction is excellent. High stability silver mica capacitors and inductors manufactured by NCL are used in the Model 200 (the Model 100 uses commercial mil-spec inductors). The enclosures undergo a three step coating process for durability and corrosion resistance.

## Test Results

I tested both filters on my limited test bench, but I'll only give the results for the Model 200 (results were equivalent for the Model 100, except for frequency). Attenuation at 560 kHz was at least 50 dB and at 1600 kHz at least 40 dB. Ripple measured less than 2 dB between 1.7 and 2.0 mHz, 1 dB between 2 and 3 mHz and response was flat above 3 mHz. The cut-off slope was very steep, going from minimum to maximum attenuation over about a 400 kHz range. Insertion loss was minimal - less than 1/2 dB. I then took the filter to the shack for real-life testing. I use a government surplus antenna coupler which allows for the use of several receivers from a single antenna. Unfortunately the broad-banded design of the coupler produces several mixing products of local broadcast stations which appear between 1.7 and 5.0 mHz on my receivers. These range in strength from S3 to S7 which is weak but still readable above the noise level during the daytime (test receiver was a NRD-535). All of these spurious signals above 2 mHz were reduced to inaudibility by placing the Model 200 in the antenna line ahead of the antenna coupler. The spurious signals between 1.7 and 2.0 mHz were only slightly reduced in intensity (this is the area of relatively high ripple). My local station on 570 kHz went from a level of 60 dB over S9 to S3 and the one on 1500 went from 60 dB over S9 to S9, which is substantial attenuation. The NCL filter does what it is designed to do very well.

## Do You Need One?

Probably not if your only local AM station is 20 miles away from your listening position and only runs a kilowatt of power. However, if you live in an urban area with lots of high-powered stations or live close to a broadcast antenna, you should consider one. One way to test for problems from local broadcasters is to tune across the tropical bands (2 to 5 Mhz) during the daytime and listen for signals that shouldn't be there. In my case, I can hear three or more local stations all appearing on the same frequency at several points on the dial. Another indicator of MW interference is if, when listening to a weak SW station, you can hear a local station on the frequency when there are pauses in the programming from the weak station. If you decide to use one, just remember to take it out of line if you do any MW DX'ing - if you don't you'll think your receiver died!

These filters are only available directly from NCL. Either filter model is available for \$49.95 with either UHF, RCA phono or binding post connectors. The filters are also available with BNC connectors for \$55.95 or "N" connectors for \$59.95. Shipping is additional. Until 30 April, 1992 a special offer is available to NASWA members. Individual orders from club members receive a 10% discount. Group orders (delivered to a single address) receive a 10% discount and free UPS shipping if the total order is \$100 to \$200 and a 15% discount and free shipping if the total is between \$201 and \$400. Just mention NASWA when you order. NCL also offers accessories such as coax jumper cables, mast mounting kits and will custom build filters to your choice of cut-off frequency. The model 400 AC line filter is also available. Northwest Communication Laboratories can be contacted at 813 SW Highland, Suite C-310, Redmond, OR 97756; 503-923-2540.

**DX TARGET: THE NEW VNG  
AUSTRALIA'S STANDARD FREQUENCY & TIME SIGNAL SERVICE  
BY RICHARD A. D'ANGELO**

On 1 October 1987, Telecom Australia switched off Australia's only standard frequency and time signal service. Located at Lyndhurst, this time signal beacon was heard and verified by shortwave listeners all over the world. This DX Target will focus on the termination of VNG, the drive to restore the service and the return of VNG to the shortwave spectrum.

The Lyndhurst Site

VNG began transmitting from Lyndhurst, Victoria, Australia on 21 September 1964. From that location it broadcast for over 23 years until Telecom Australia pulled the plug on 1 October 1987. The principle reasons for terminating the service were that (1) Telecom no longer viewed VNG as a necessary service and (2) the Australian Government's desire to sell the Radio Lyndhurst transmitter site.

Prior to switching the station off, Telecom offered either to run VNG at \$12,000 Australian per month until March 1988, or give the transmitting equipment to any organization that was willing to operate the station. Based on an operating budget of approximately \$144,000 Australian per year and a perspective capital outlay of over \$1 million Australian to replace the aging transmitters, no organization was willing to take sole responsibility to keep the service alive. Earlier that year, Lyndhurst transmitter sites for ABC stations VLH 9 on 9,680 kHz; VLH 11 on 11,880 kHz; VLH 15 on 15,230 kHz; VLR 6 on 6,150 kHz and VLR 9 on 9,680 kHz, were closed down. On 1 October, VNG, the final high frequency transmitter at Lyndhurst, ceased operations.

The Users Consortium

Early in December 1987, the Australian National Standards Commission invited former VNG users and other interested parties to a meeting to discuss the need for a medium accuracy time signal service in Australia. The nearly 100 people that attended the meeting asked the National Standards Commission's Precise Time Working Group to investigate ways of reviving VNG.

Within three months, the Working Group identified a prospective site for VNG at Llandilo. It immediately obtained Telecom's agreement to donate, free of charge, the old VNG equipment to the National Standards Commission. However, it was going to charge \$4,500 Australian for the equipment's dismantling and packing. The VNG Users Consortium was formed to raise the necessary funds since it was considered inappropriate for a Government body to do the fund raising.

The Users Consortium held its first meeting in February 1988. At that session, it was decided to re-establish and maintain a national high frequency and time signal service. In order to accomplish this goal, it was agreed that a letter would be sent to all known users requesting contributions for running the operation. The success of the early fund raising activities enabled the VNG Users Consortium to pay for the dismantling and packing of the equipment and for its transport from its former home at Lyndhurst to its present site at Llandilo.

The Australian Surveying and Land Information Group of the Department of Administrative Services ("AUSLIG") paid the set up costs at Llandilo. AUSLIG has agreed to fund VNG for at least five years provided that it eventually achieves adequate cost recovery from the stations users. Virtually everyone involved with VNG either does the work unpaid on their own time or on top of their normal duties. The station has become a labor of love for those involved.

The Llandilo Site

Today, VNG is located at the Australian Civil Aviation Authority's International Transmitting Station at Llandilo, New South Wales. Its coordinates are latitude 33 degrees, 42 minutes and 52 second south and longitude 150 degrees, 47 minutes and 33 seconds east. The equipment was shipped by commercial carrier to the site in June 1988.

On 11 August 1988, the initial VNG equipment test transmission took place on 4.5 MHz and 2.5 MHz. A full power test using 10 KW took place the next day. On 17 August, staff from the Telecom Research Laboratories and National Measurement Laboratory set the time instruments. A small champagne celebration took place when the voice announcing cartridges commenced operation for the first time in 10 months. The new voice announcements were recorded free of charge by Barry Seeber of Radio Australia, one of the station's internationally known radio personalities.

The initial joy was short lived as complaints began coming in from operators in the Sydney area who had previously been allocated frequencies close to 4.5 MHz. The new service was a troubling source of considerable interference. On 18 August the Radio Frequency Licensing Branch of the Department of Transport and Communications ("DOTC") ordered VNG switched off until the problem could be corrected. Subsequent meetings with the DOTC determined that VNG's old frequencies of 4.5, 7.5 and 12.0 MHz were outside the bands in the Australian Radio Frequency Spectrum allocated to standard frequency and time signal services. The DOTC wanted to allocate 5.0, 10.0 and 15.0 MHz to VNG to put it into the right part of the Spectrum Management Plan. Although these frequencies were considered inadequate, the Users Consortium accepted them in order to get the station back on the air quickly. The Users Consortium set out on a plan to pursue alteration of the Australian Spectrum Management Plan.

The new frequencies created a negative reaction from users with overseas interests because of the number of other frequency and time signal services on the same frequencies. VNG delayed applying for licences for this reason. However, VNG was granted a temporary licence to transmit for a few hours on 4.5 MHz on the 21st and 22nd of August and October 1988 for astronomers. Aside from that, the service remained dormant as things were at an impasse.

In October 1988, the VNG Users Consortium decided to apply for a 5.0 MHz license. A temporary license was granted in early November pending the necessary international approval of the frequency change. A retired ABC news reader, Graham Conolly recorded a new voice announcement, free of charge, in the Brisbane studios of the ABC. Reception reports were received from India, USA, Canada, Wales and Spain.

In June 1989, the station began transmitting on 10.0 and 15.0 MHz between 2200 - 0700 UTC on an experimental licence. In late August 1989, the four Canberra based members of the Users Consortium met with the Minister of Communications to request other frequencies because of the number of other standard frequency and time signal services on 5.0, 10.0 and 15.0 MHz. The crowding of the radio spectrum eliminated the possibility of 4.5 and 7.5 MHz being available. At this time, discussions concerning the possibility of using 16.0 MHz began.

#### The Station

VNG is a high frequency radio station transmitting accurate time signals on stabilized carrier frequencies. Its users consist of astronomers, amateur radio operators, seismologists, upper atmosphere physicists, surveyors, FM radio stations in Australia, geophysicists studying the earth's magnetic field, electric power networks and shortwave listeners. The time code format broadcast by the station incorporates time of day and day number of year information in binary-coded-decimal ("BCD") form. The BCD time code transmission takes place between second markers 20 and 46.

Three small racks of electronic gadgets are at the heart of the station. The equipment consists of precision quartz oscillators, time signal generators, fixed frequency synthesizers, announcing machines, supervisory equipment, DUT1 code generators, civil time receivers and power supplies. The transmitters are STC high frequency broadcast transmitters designed to deliver an output of 10 KW between 3.2 - 28.0 MHz. The equipment is a self-contained two-unit cabinet with an externally mounted transformer. The transmitters are quick and easily tuned. A horizontal Wells quadrant aerial is used which prevents interference that the original omnidirectional monopole vertical aerial created. VNG operates on 5,000 kHz; 8,638 kHz and 12,984 kHz on a continuous basis and 16,000 kHz from 2200 - 1000 UTC. The latter three frequencies commenced operation on 3 July 1991.

As can be expected, VNG is very friendly to all users of the service which includes shortwave listeners. The station responds very quickly to all correct reception reports. Listen for their voice announcements during the 15th, 30th, 45th and 60th minutes to help identify the station. Reception reports with return postage may be sent to:

VNG Users Consortium  
Dr. Marion Leiba, Honorary Secretary  
GPO Box 1090  
Canberra, ACT  
Australia 2601

Good luck with this DX Target. Remember to send all those logs of VNG to either Sheryl Paszkiewicz or Wallace Tribel for inclusion in the Tropical Band or International Band log report columns and those friendly QSL's to Sam Barto for his QSL Report column.

# Easy Listening

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

## Welcome to Election Year 1992

From now until November, news programming in the United States will be dominated by one theme - the November presidential election. Scarcely a day will go by without one or more stories from the political trail. Times like this make me extremely glad I get most of my news from shortwave.

I don't wish to belittle the election process or denigrate any candidate, but I personally believe the campaign process receives too much airplay from domestic news providers without a corresponding dose of reflection and analysis.

Those international broadcasters that report on American politics, especially the BBC World Service and Radio Canada International (the Canadian Broadcasting Corporation, or CBC), provide a broader measure of analysis and background in their coverage, since they aren't constantly reporting on politics. These broadcasters also view the American political process as outsiders. Hearing American political news through the glasses of outsiders makes for interesting listening.

The CBC's **Sunday Morning** is one recommended program, as its "long form" coverage enables a more thorough development of each story. Sunday Morning also includes a pinch of humor in its reporting, with political commentary in the form of a song. A guitar-accompanied vocalist sings a tune that has to have been written just a few days before each week's program. The song is normally the concluding piece of the first half hour of the program. The closest American analogy to this commentary set to music: Mark Russell's performance in his PBS specials.

RCI broadcasts Sunday Morning from 1400-1700 UTC Sundays on 11955 and 17820 kHz. The time will change to 1300-1600 when Daylight Savings time begins here in North America on April 5th.

While the BBC has no specific programs on American politics on its schedule, I have some general program recommendations of possible interest. Alistair Cooke's **Letter From America** will likely have several installments reflecting on the US Presidential Campaign. Letter from America can be heard Saturdays at 1015, with repeats Sundays at 0615, 1645, and 2230. The

BBC's longer-form news broadcasts - Newshour (0500, 1300, 2100) and Newsdesk (0000, 0200, 0700, 1100, 1800) - are two likely programs with coverage on the election process.

Another broadcaster with a good reputation for balanced news coverage is the World Service of the Christian Science Monitor. The international portion of the **MonitoRadio** audience helps to keep some perspective on matters of domestic news.

Drop me a note if you have any other suggestions for NASWA members.

## Radio Prague International

Much as Czechoslovakia's "Velvet Revolution" served as one of the calmest transitions from a state-controlled to a market-based economy, Radio Prague International reorganized itself into a more responsive and responsible broadcaster. I probably spend more time listening to Prague than any other Eastern Europe broadcaster except for Radio Moscow.

Radio Prague International focuses its reporting on Czechoslovakian affairs, often ignoring other more important world events that don't directly impact Czechoslovakians. I don't consider that a disadvantage - for pan-European coverage, I can always tune in Radio Deutsche Welle.

One of the ways Radio Prague International has distinguished itself after its reorganization is by utilizing American expatriots (presumed) as "continuity men" (their phrase) between program segments. Bill Bathurst and Steve Fisch have this title as part of their duties. I find these American presenters add listenability to the program, as the combination of transmitters in disrepair and thick accents can often make listening to an Eastern European broadcast more challenging.

Here is the current roster of Radio Prague International programs for the releases beamed to North America. This schedule should be valid through May 3rd, 1992.

Monday	Sports Roundup Lifestyle The Arts Letter from Bratislava (repeat)
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Tuesday	Observer Stamp Corner (repeat), alternating with Science and Technology (repeat) RP on the Line
Wednesday	DX-Special Mailbag Probe (repeat) Brass Band Music
Thursday	Opinion Ecology & Health Letter from Bratislava Stamp Corner, alternating with Science and Technology
Friday	Economic Report Tip for a Trip Roundabout
Saturday	Probe CS This Week From the Weeklies DX-Special (repeat) Mailbag Reading
Sunday	Scrapbook Encore!!! Jazz talk each fourth Sunday

All broadcasts include news from and about Czechoslovakia; the weekday broadcasts also include current affairs commentary and press reviews.

Radio Prague International's address: Radio Prague International, 120 99 Prague, Czechoslovakia.

Last Friday, at the Philadelphia Regional NASWA Meeting, Joe Hanlon mentioned that Radio Prague International will change its name to Radio Czechoslovakia as of the May 4 schedule change. I don't know if any program schedules will change at that time, but the best advice - as usual - is **Keep Listening!**

## March Highlights - BBC World Service

The most interesting program series for March will likely be the continuation of **It's Your World**, the phone-in series with eastern European leaders. Lithuanian president Vytautas Landsbergis is featured on the March 22nd program. You can write in your questions - I'd suggest air mail at this juncture, with "It's Your

World" as the first line of the address - or, if you prefer, phone in your questions on (011) 44-71-379-7444 from 1200 UTC on during the Sunday of the broadcast. I don't guarantee this will work, but there is a telefax phone number shown for "Write On" questions that may work for this program, as well: (011) 44-71-497-0287. If you mail or fax your questions, please provide a

### Now Available!

#### The Shortwave Radioguide Winter-Spring 1992 Edition

NASWA/ODXA member John A. Figliozzi of New York has produced the fourth edition of his popular Shortwave Radioguide. Thanks to the desktop publishing efforts of Harold Sellers of The Ontario DX Association we are happy to make this book available to all NASWA members.

While a good deal of what is broadcast on international shortwave radio can be placed in the categories of news, news analysis, and (yes, still) propaganda, there is a wide variety of other types of programming broadcast that is unique, entertaining, and painlessly informative. The problem is finding it.

Almost fifty shortwave stations beam transmissions to, and design programs for, a North American audience. In addition, several other stations and their programs are routinely audible in this part of the world. The objective of this guide is to provide the listener with an as accurate as possible survey of what is routinely by whom in English to North America.

The Shortwave Radioguide contains seven sections, one for each day of the week, giving a by-time listing of programs aired. Two editions are published each year to coincide with major schedule changes made by broadcasters.

New in this edition are several articles by John, plus a limited frequency schedule for many broadcasters has been included for the first time.

The cost of The Shortwave Radioguide is \$16 per copy postpaid to NAm, \$20 elsewhere. It can be ordered from The NASWA Company Store, 2641 South Shields St., Philadelphia, PA 19142

phone number where you can be reached - the BBC may call you and ask you to ask your question live on the air.

The unique traditions of British aristocracy are explored on **Blue Blood**, a program investigating the role of the aristocracy in the UK today. Sunday, March 22nd, 0230 and 1615; repeated Monday, 0730.

**It Made Our World** continues this month, focusing on the technologies of food and water. Wednesdays at 0130, 0930, and 1715.

Perhaps in tune with the USA's electioneering process, a five-part series entitled **Oratory** investigates modern oratory in these days of television and instant communication. Politicians, churchmen, and entertainers are all profiled for their oratorical skills. Sundays beginning March 8th, 0415 with repeats Mondays 1930, and Tuesdays 0915.

The experiences of British working women in typical male-dominated occupations is the subject of **Sugar and Spice**, a five-part series beginning Sunday, March 15th at 0445, repeated Mondays 1445 and Wednesdays 0815.

Highlighting **Play of the Week** in March will be two works specially commissioned for the BBC: "Wild Strawberries" on March 1st and 8th, is an international radio rarity: a comedy. Sundays, March 1st and 8th, at 0101, 1201, and 1901. "Heart of April" is a drama exploring the fictional experiences of French villagers located near a nuclear power plant gone awry. The author, David Zane Mairowitz, is an American who was taken aback by French nonchalance concerning nuclear power. Same times, on Sunday, March 22nd.

**Composer of the Month** focuses on Richard Strauss, considered by some to be the last of the great romantic composers. Mondays 0230 and 1130; repeated Tuesdays 1715.

European Football highlights sports coverage in March. While no specific sports specials are shown, the following regularly scheduled sports programs are shown: **Sports International**, with commentaries and interviews, Wednesdays 2215 with repeats Thursdays 0230 and 0630; **Sports Roundup**, daily at 0315, 0945, 1245 (except Sundays), 1745, and 2245. **Sportsworld**, Saturdays for two and one-half hours (in pieces) at 1430, 1515, 1615, and 1701.

## Radio Japan

No significant changes to report here. However, I've found Radio Japan's 1100 UTC broadcast beamed to North America by Radio

Canada International a pleasant breakfast companion. The **NewsRound** program, often hosted by Ian McFarland, is especially interesting given the negative press on Japanese business practices in American newspapers.

## Radio Deutsche Welle

Even though the 0400 broadcast to Africa and the Middle East isn't targeted towards North America, I recently found 7225 kHz to be a reliable frequency. The program mix is a bit different than the program beamed to North America; one example is the program **Man and the Environment**, in Saturday broadcasts. A series of broadcasts and special features will lead up to the June 1992 "Earth Summit" in Rio de Janeiro.

## Oops!

Fred Kohlbrenner of the NASWA Company Store pointed out an error in my October 1991 column. In that column, I erroneously stated the price of the **Shortwave Radioguide**. The correct price of the Radioguide is **\$16 in North America, \$20 elsewhere** from the NASWA Company Store. Sorry for any misunderstanding.

## Feedback

Ed Gibbs (KC4UFN) of Virginia Beach, VA provided these program suggestions.

Radio Moscow's **New Market**, while extolling the untapped commercial potential of Russia, managed to blend a frank discussion on Russian postal problems during a recent program. Ed's notes show Mondays at 0315 for **New Market**; I'm sure there are other releases.

Spanish Foreign Radio has begun **Cultural Encounters**, a program spotlighting Spanish cultural exchanges with North America. The 500th anniversary of the Jewish expulsion from Spain was remembered with a report of recent tour by members of the American Jewish Congress. Historical and religious sites were reviewed.

Thanks also to Bob Curtis (W1EXZ) of Colchester, Vermont for his comments.

That's all I have for this month - I hope to see many of you at the Winter SWL Festival. Until next month,

73 DE Richard

# African Destinations

Bill Kurrasch  
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**D**Xing the African continent has always provided interesting listening. With all the social and political unrest that seems to be continually occurring in this region of the world, there is always something of interest being reported on the many shortwave stations located in Africa. Surprisingly, very little coverage is provided to the headlines breaking from Africa by the world news services. Since the end of World War II, an estimated 20 million people have died as a result of the various wars and rebellions that have occurred on the continent. Countless millions more have died from famine and disease. If you are a new SWL or haven't listened to the African broadcasters in recent times, try tuning in to hear first hand what is taking place on this most interesting continent.

This month's column is meant for those who have not spent much time listening to Africa and wish to increase their QSL's and NASWA Country Count totals. Information will be presented on easy, and some less than easy catches:

1.) **Madagascar** - Located off the east coast of the continent in the Indian Ocean, this is probably the easiest African nation to verify thanks to the powerful relay station (300kW) operated by **Radio Nederland**. Most of the transmissions from this site are an easy catch in North America. Many new SWL's may have heard a broadcast from this site, assuming that it was originating from Holland. Try tuning in at the following times (UTC) and frequencies:

0830-0925 hrs on 17575 and 21485 kHz (Asia & S. Asia beam)  
0130-1225 hrs on 17580 & 21480 kHz (European beam)  
0430-1525 hrs on 13700, 15150 & 17580 kHz (S&E Asia beam)  
1830-1925 hrs on 6020 & 15570 kHz (African beam)  
2030-2125 hrs on 7285 & 9860 kHz (African beam)

Sunday is a good day to try to hear these transmissions. You'll find Tom Maier and "The Happy Station Show", the longest running family entertainment program on shortwave radio. **Radio Nederland** is among the best broadcasters in the world in responding to reception reports. You will normally receive a full-data QSL in about 30 days for a report airmailed to their Hilversum address.

**Radio Malagasy** can also be heard from this station but not nearly so easy. Best bet is to try 7155 kHz from 0300-1500 hrs; or 6135 kHz from 0500-1500 hrs. (seldom heard here). Also try 3690 kHz from 0500-1300 hrs. (not widely reported). If you hear any of these outlets, it will most likely be in French or Malagasy. Reception reports should be written in French and include return postage with your report in the form of mint stamps, IRC's, or US \$, or a combination of each.

Logging this country, for NASWA Country Counting purposes, would be listed as **"MADAGASCAR"**.

2.) **Gabon** - With **Radio Japan** operating a giant 500kW relay transmitter here, Gabon is another easy catch to increase your country totals. **Radio Japan** is another good verifier, but usually with a non-data card. If you wish to have the specifics of your reception listed, you may try requesting such. This may or may not produce a full data QSL. Try listening at the following times and frequencies:

0300 - 0330 hrs on 9645 kHz (S. Africa beam)  
0700 - 0800 hrs on 21690 kHz (Europe & N. Afr. beam)  
1500 - 1600 hrs on 21700 kHz (European beam)  
2300 - 2400 hrs on 11735 kHz (Europe & N. Afr. beam)

While these transmissions are beamed to Europe and Africa, they can often be heard in North America.

**Swiss Radio International** also has a relay facility located in Gabon. They use a frequency of 12035 kHz to beam a signal to Central and South America. Try listening from 1900-2130 hrs and 2215-0100 hrs. You will hear a number of different languages during this time, but English is not transmitted from this relay however. The **International Red Cross Radio** also uses this relay to transmit its monthly test on the last Monday of the month, repeated on the following Thursday.

A government broadcaster, **Radio Diffusion Television Gabonaise**, is occasionally heard on 4777 kHz (0530-0800 hrs) and 7270 kHz (0800-1600 hrs) in French. If you manage to hear them, a report in French and return postage may produce a QSL.

A better bet is **AFRICA No. 1** (or, **Afrique Numero Un**). Try 9580 kHz at 0500-2300 hrs; 15475 kHz at 1600-1900 hrs; and 17630 at 0700-1600 hrs. Programming is in French. **Africa No. 1** seems to be a good verifier although they seem to respond somewhat slowly. They prefer reports in French although they often respond to reports written in English. Return postage or a dollar may encourage a response. For NASWA Country Counting purposes, logging this country would be counted as "FRENCH EQUATORIAL AFRICA (GABON)".

3.) **Mali** - Again, thanks to powerful relays, this time through the courtesy of **Radio Beijing**, Mali is another easy to verify African nation. Best times to listen are:

0000-0100 and 0300-0400 hrs on 9770 kHz & 11715 kHz (North American beams).  
1600-1700 hrs on 15110 kHz (African beam).  
2000-2100 hrs on 11715 and 15110 kHz (African beam).

**Radiodiffusion Television Du Mali (RTVM)** transmitting from the capital city of the republic, Bamako, is also widely heard on the frequencies of 4783 and 7285 and less often on 5995, 9635 and 11960 kHz. This broadcaster is notoriously slow in responding to reception reports and they only seem to reply to those written in French and those that include return postage and maybe a dollar. Don't wait at the mailbox for their reply. This one will take a while.

4.) **Botswana** - The Voice of America began transmitting from this land-locked nation on December 6th of last year, making this another easy nation to log. With two 100 kW transmitters operating, this relay is easily heard in North America. This site was constructed to replace to one that was destroyed in the ongoing civil war in Liberia. The VOA plans to put two more 100 kW transmitters on the air from this site in the spring. Try listening for English language broadcasts at the following times and frequencies:

0300-0500 hrs on 7265 kHz  
 0300-0430 hrs on 11940 kHz  
 1600-2200 hrs on 15445 kHz

Reception reports should be sent to the VOA in Washington, D.C. Response time from the VOA can vary anywhere from ten days to ten months, but they are excellent about supplying full reception details on their QSL's.

**Radio Botswana** is not too difficult to hear under favorable conditions in North America. Try the following frequencies: 3356 kHz at 0300 - 0430 hrs or 7255 kHz at 0300 - 1800 hrs. The 7255 kHz frequency presents the best chance for a catch of this station. Tune in to this frequency about 10 minutes before scheduled sign-on and enjoy one of the most unique Interval Signals on the bands. You will hear an assortment of barnyard animals and cowbells and whatever else was on the farm the day that Radio Botswana taped their I.S. Other Radio Botswana shortwave outlets include 4830 and 5955 kHz, but reception is not widely reported on these frequencies in North America. A large portion of R.B.'s programming is in English and they are very good verifiers of reception reports written in English. A dollar will help you to get a full data QSL card - usually a Herdsboy milking a cow. For NASWA country counting purposes, this country would be counted as "BECHUANALAND (BOTSWANA)".

6.) **Morocco** - This is another easy African nation to log, again, thanks to the VOA. They have a relay station located in Tangier (also known as Tanger) province in this north west coastal nation. Formerly under Spanish rule, Tangier became part of Morocco in 1956. Try the following times and frequencies for this relay:

0300 - 0400 hrs on 17715 kHz (W. Africa beam)  
 0400 - 0500 hrs on 9530 kHz (E. Europe beam)  
 0400 - 0600 hrs on 9615 kHz (E. Europe beam)  
 1700 - 1800 hrs on 15955 kHz  
 1700 - 2200 hrs on 15205 kHz (Europe, N.Afr. beam)  
 1800 - 2000 hrs on 11750 kHz (E. Europe beam)  
 1900 - 2400 hrs on 11710 kHz (E. Europe beam)  
 2100 - 2200 hrs on 11750 kHz (E. Europe beam)  
 2100 - 2400 hrs on 9650 kHz (E. Europe beam)

There are other times and frequencies when this site is active. Refer to the World Radio TV Handbook or Passport to Worldband Radio for specific details. For NASWA country counting

purposes, this catch would be counted as "TANGIER (MOROCCO)".

**Radio Diffusion Television Marocaine** is also widely heard in North America. Try a few of the following beams:

0945 - 0100 hrs on 15335 kHz (Europe & W. Afr. beam)\*  
 1045 - 1700 hrs on 15360 kHz (MidEast, E.Eur., N.Afr.)  
 1045 - 1400 hrs on 17815 kHz (MidEast, N.Afr., beam)  
 1500 - 1800 hrs on 17595 kHz (Europe, W. Afr. beam)  
 1700 - 1900 hrs on 17815 kHz (Europe, W. Afr. beam)  
 1700 - 2100 hrs on 15330 kHz (MidEast, E.Eur., N.Afr.)  
 1900 - 0100 hrs on 11920 kHz (Europe, W. Afr. beam)  
 2100 - 0100 hrs on 15105 kHz (MidEast, E.Eur., N.Afr.)  
 \* = Arabic language service.

This station broadcasts in English, Spanish, French, Arabic and numerous regional languages. RDTM is a good verifier but return postage or a dollar helps to ensure a QSL. English reports are accepted. For NASWA country counting purposes, this station would be counted as "FRENCH MOROCCO (MOROCCO)".

**Radio Mediterranee Internationale** (also known as "Radio Medi Un" or "Medi 1" can be monitored on 9575 kHz. It broadcasts in French and Arabic to Europe. It is on the air from 0800 to 0200 hrs. Reception reports in French are preferred and reply postage is extremely helpful. For NASWA country counting purposes, this station would also be counted as "TANGIER (MOROCCO)".

7.) **Lesotho** - is also easy to add to your "Country Heard" list due to the BBC relay transmitters located in this central African nation. Try listening to 3255 kHz around 0300 - 0600 hrs or 6190 kHz at 0300-1600 hrs or 1194 kHz at 0600-1600 hrs. Hearing these relays shouldn't be too difficult. Getting a QSL card for this catch won't be too easy. Several years ago the BBC adopted a policy of no QSL's. You can try sending a report to the Beeb in England but don't expect a reply. You may do better by sending your letter directly to the transmitter site located in the city of Maseru. In this case reply postage may be quite helpful toward getting your card.

**Lesotho National Broadcasting Service** transmits from 4800 kHz with a sign-on at 0300 hrs. They broadcast a large portion of the programs in English and reply to reports written in the same. Hearing this station may prove to be challenging, especially since it shares the frequency with stations from Ecuador, Peru, The Dominican Republic, The Commonwealth of Independent States, etc. Again, reply postage may be very helpful if you hear enough to send a report. For NASWA country counting purposes, check off "BASUTO-LAND (LESOTHO)".

We will continue to highlight easy and not quite so easy catches, to help you to increase your country count and your QSL collection in the next edition of "African Destinations". Until then, good listening and let us know if you have any luck in catching the tough ones! 73's

# Listener's Library

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Hi there and welcome to Leap Year February in the Listener's Library. It is a weird month and this may be a rather weird column... at least that is the way it's starting out.

## DARLING CHECKS IN!!!

One of the nicest things about this hobby is that we often have the opportunity to meet interesting people. Gordon Darling is a citizen of Great Britain, former employee of the BBC Monitoring Service and now Frequency Management Officer with the Department of Post and Telecomm. in Papua New Guinea. He is also one of the most prolific DXer/QSLers in the world. You may remember that Gordon and his family spent last Christmas here in Stillwater with the Bryants. They were on their annual Summer Holiday.

This year, Gordon has been very busy traveling around to almost all of the 20+ NBC regional stations and has not corresponded with any of us very much. Recently, I heard a rumor that Gordon and his family were going to spend Holiday this year in "The Golden Triangle." I took that to mean the Golden Drug Triangle where Laos, Cambodia and Thailand touch. Although Gordon is a bit of a British version of Indiana Jones in person, I really didn't suppose that the rumor could be true! However, just today I got an oversized color post card from Gordon. The picture was of Bangkok's Wat Phra Kaeo, The Temple of the Emerald Buddha, the stunning national temple of Thailand. The message was as follows:

*Greetings from the Golden Triangle. Writing this listening to Savanaket at 59 + 20 and drinking Maekong Whiskey to help the DXing along, hi! I have perfected the answer to the Bryant Beverage on a Bush! A 350 ft. vertical of invisible magnet wire suspended down the side of a hotel from the 12th floor! Definitely the answer to DXing from hotels.*

73 Gordon Darling

P.S. I'll post this when I get to Chiang Mai.

Well, there you have it... Chiang Mai is Up Country and one of the gateways to the Golden Triangle, I'm told. Wow, what a Christmas Vacation!!!

## SOUTH PACIFIC MAGAZINE

Before he left, Gordon sent me several magazines. The most fascinating is *South Pacific Magazine*. It is a very upscale quarterly published in Port Moresby. The issue that Gordon sent was Volume 2, No. 3, probably published in August or September 1991. There

is no subscription information in the publication, nor any price on the cover. Its quality of photography and printing rivals that of *Islands* magazine, with a heavier cover. The extent and variety of coverage is super. The articles address some of WWII history (Rabaul), the recent Knighthood of several of PNG's leading citizens, the preparation for the South Pacific Games to be held in PNG and many other historical and contemporary subjects. I doubt if *South Pacific Magazine* can be found in North America except in a few very large book stores in the major cities. I'm going to try to get subscription info for us in the next month or so.

I find the many advertisements in *South Pacific Magazine* as fascinating as the excellent articles. One of my favorite advertisers is Boroko Motors. Boroko is the main government office and upscale housing area of Port Moresby. Boroko Motors handles everything from Nissan thru Mercedes to Ford tractors, Freightliner and Mercedes trucks and Evinrude outboard motors. They have branch offices in several cities. I'll reproduce their logo below:



PORT MORESBY:  
25 5255  
LAE:  
42 1144  
RABAUL:  
92 2777  
KIMBE  
92 5540  
MADANG:  
82 2433  
MT. HAGEN:  
52 2433  
HIGATURU:  
29 1715  
ARAWA:  
95 1566  
TABUIL:  
58 9081

# BOROKO MOTORS

**THE GOOD GUYS FOR BEST BUYS**

Well, if you are having trouble getting a QSL from Radio East New Britain, just dial 011-675-92-2777. That takes you through ATT overseas (011) and the PNG Country Code (675). If you call during sales hours (0000 to 0800 UTC approx) you will get the Rabaul office of BM, The Good Guys with the Best Buys! Maybe they know the Station Manager at RENB! If they don't know anyone at RENB, ask them how much a Mercedes sedan costs delivered in Rabaul. You are sure to feel better, hi, hi!

Things are often not as we imagine them, eh!

## MORE EXOTICA

A close friend gave me two books (in paperback) for Christmas, each authored by Alexander Frater. I have finished the first of these wonderful books: *Beyond The Blue Horizon on the Track of The Imperial Airways*. Alexander Frater was born in the South Pacific island group of Vanuatu, the son of a Scottish medical missionary. He has contributed to many publications, including *Punch* and the *New Yorker*, and his last book, *Stopping-Train Britain*, was a national bestseller there. In 1989 he retraced the Imperial Airways African route in a Catalina flying boat for a major BBC television documentary. He is Chief Travel Correspondent of the *Observer* and lives in London.

*Blue Horizon* traces a 1985 adventure built upon Mr. Frater's largely successful attempt to trace as exactly as possible the London to Australia air route of pre-War Imperial Airways. Imperial flew giant flying boats and equally large Hadley-Page Heracles biplanes from London to Australia, then the longest airline journey in the world. The trip took a couple of weeks in those days and stopped at dozens of places enroute. Alexander was early influenced by an elderly British governor of Fiji who spoke to Alex after WWII of those days of long ago:

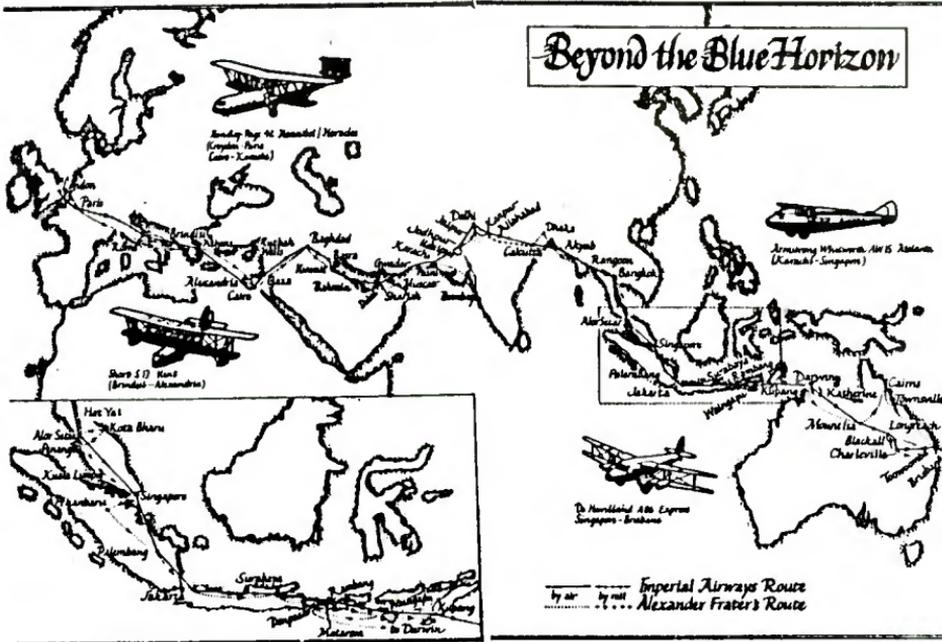
*"He spoke of great shiny biplanes, their interiors furnished in silks and satins, commanded by men who carried silver whistles for blowing at the ground staff, and who came back to take lunch at their won tables in the main cabin. Distinguished passengers like Mr. Winston*

*Churchill and Mr. Noel Coward were invited to join them. At night the planes landed and everyone had dinner ashore before retiring. In the Middle East they even stopped at lonely desert forts guarded against marauding bedouin by armed Arab irregulars. Every flight was an adventure. Sir Brian said there had been nothing like the Imperial Eastbound service before and there never would be again, and he seemed very sorry about it."*

I'll reproduce the route map from *Blue Horizon* for you. It shows both the original route and Mr. Frater's modern recreation (with an air ticket packet inches thick.) The Penguin paperback is wonderfully written and a real adventure. Order it in paperback, probably for under \$10.00 or try for a hard cover at your local library.

## FOR LATIN LOVERS

I've been waiting for this book for a long time! Our sister organization SPEEDX has just published *Carl Huffaker's Latin Notebooks*. Carl is one of the grand old men of the hobby and may not be a familiar name to many of you. Carl is a retired engineer and aerial surveyor who has resided in Mexico for a long time. As an aerial surveyor during and right after WWII, he was the first person to map the fabled Beliem Valley in New Guinea. He was also one of the primary surveyors of the upper reaches of the Amazon! If that wasn't enough adventure, he married into Latin American culture and raised a family, I believe, in Mexico, D.F. Currently, Carl lives in retirement in Huasca de Ocampo, Hidalgo in the uplands near Mexico City.



Carl was the Latin American columnist for SPEEDX for many years. He is a treasure trove of knowledge about Latin American culture in general and Latin American radio in particular.

From Carl's Introduction:

This is a series of brief writings arranged more by time of publication than by theme. In truth, there is but one theme, my continuing love affair with Latin America. This represents one of its phases, one when radio kept bringing back memories of places and adventures, some from almost half a century before. During the period that I edited the Latin American column for SPEEDX, I reserved a page, or sometimes only a paragraph, for commentary on Latin American radio. Most of the items were written hurriedly, at the last minute before a deadline, but all have one thing in common: They were thoughts initiated by (and sometimes a complicated distance from) something I'd heard on the air. There is little consistency of subject, for each station in Latin America has its own personality, and each session at the dials its surprises.

The publication is dedicated to Lola. Lola is an Anglicized version of Lolita, the Spanish diminutive for Maria de los Dolores, her real name. We married during my 50th year. She was a Gypsy, a Spanish Gypsy, and somehow related to the titles, the personages, and the history of Latin America. She was not much of a DXer, not much with the radio even though she kept WWV coming through loud and clear during those long nights in Baja when I was making astronomical observations and needed those one-second ticks on the audio tape. She, too, was in love with Latin America, although she would prefer I call it Nueva Espana. We traveled, enjoyed people and remote places, and sometimes found a radio station.

Carl is very much too modest. His essays are absolutely wonderful and range from a single paragraph to several pages. They cover the entire waterfront from discussions of a single station to the future of Latin American culture.

The entire collection has been retyped and laser printed. It is 76 pages of Latin Lore, single spaced for the very reasonable price of: US \$ 7.95 plus shipping: \$2.25 in North America, \$2.50 surface mail worldwide, \$4.50 airmail to South and Central America, and \$5.50 airmail elsewhere. *Carl Huffaker's Latin Notebooks* is available from: The SPEEDX Supermarket, 5008 Stonehenge Lane, Norman, OK 73071.

I think that Latin Notebooks should be required reading for anyone remotely interested in listening to radio from the Americas. Congratulations to the SPEEDX crew and very well done!

John Carson also tells me that the long awaited *Literature of Shortwave Radio* by Ed Januz is at the printers. Ed and some of the other SPEEDX folks have been working on this one for almost two years. It should be a real gateway to the broad reaches of hobby and associated literature. We'll review it next month.

## RADIO PHNOM PENH

I also got a delayed Christmas Card from Miss HEM BORY one of the english announcers at the National radio station. Last year the card read Voice of the People of Kampuchea, this year, as you see, it's RADIO PHNOM PENH. That poor devastated country is far from peace, but the news is hopeful. The name change, the logo and citation on the card say an awful lot about the current situation.



## LANGUAGE RECOGNITION TAPES

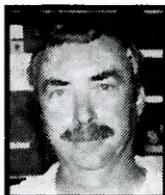
I have had questions lately concerning aids in recognizing the languages that we hear over the air. There is only one resource, thankfully saved from the DXer's Dustbin by the folks at Ontario DX Association. As a service to the hobby, they sell a tape of the series of program segments originally produced by Radio Canada Intl. The series features very well known DXer and professional linguist, Dr. Richard Wood. On the cassette, Dr. Wood analyzes the languages by type and then gives your DXer's Ear the hints that it often needs. Dr. Wood covers 55 (!) languages on a single cassette. The *Foreign Language Recognition* tape is available for \$6.00 plus \$2.50 S. & H. (US\$1.00=Cdn \$1.15) from ODXA, Box 161, Stn. A, Willowdale, Ontario, M2N 5S8, CANADA. Highly Recommended!

Well, we are out of room again. Sure hope you remembered to watch "Empire of the Air."

# NASWA Portraits

Jerry Klinck

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Welcome to another "PORTRAITS" in the "Journal". From the "wouldn't you just know it dept." I'm about two weeks back into DXing and suddenly there appears WWKB - 1520 harmonics all over the 90 and 60 meter bands. Nightmare city!

Off we go to Vancouver, Washington, where I hope that Tim Canan is not starting his new year like I.

"My interest in radio began in 1958 at age ten, when my cousin Glen built a crystal set. It fascinated me and soon I had my own crystal kit. Shortly thereafter, my brother received a Hallicrafters SW radio for Christmas. (Why him?) Fortunately, he let me listen to it as well. This radio curiosity continued into high school and at the age of 16 I became an amateur radio operator, as did many of my friends. My parents were totally shocked when I saved up my paper route earnings and bought a Drake R4 receiver for about \$275.00 in 1964. Back then that was a lot of money for a 16 year old, but it kept me off the streets (sometimes)."

"I was a very active amateur radio operator and part time SWL my last year in high school, but as I started college other interests competed for my time and I became inactive. I even let my radio license expire on the logic that if I ever wanted to become an amateur again, I would have to study the latest material to pass a test anyway. That turned out to be true. After college, I did occasionally listen to hams and SW broadcasts, especially on camping trips. I even listened to enough Morse code to maintain that skill at a minimal level."

"Then, in late 1989, at the age of 41, suddenly the radio bug bit again [funny how it never really goes away, eh? - ed.] when I found a WRTVH in a local bookstore and discovered that SW radio broadcasting was alive and well. Shortly thereafter I bought a Radio Shack DX-440 (Sangean 803) and joined NASWA. That was followed by a multiband inverted V antenna on the roof (the family calls it the monstrosity). I even installed all new tubes in the Drake R4 which still works quite well. My interest

was primarily international news and music. This was at the time of the break up of the Warsaw Pact., so the news was very interesting."

Then the amateur radio bug bit again and I began studying for the tests in the summer of '90, passed all three of them, and received my General class license in September. The humorous part of passing the 20 word-per-minute Morse code test after having no license for twenty years. The test people were suspicious since many experienced hams fail this test."

"Since getting my ham license, I am still an active SWL. I enjoy the music, especially Greek, middle eastern, African and Andean, and I often listen to news and cultural programs, mostly from Europe. I always take my DX-440 with me camping and enjoy listening around the campfire. The receiver I use most is a Yaesu FT-757 which is an amateur transceiver with general coverage reception. Fortunately my wife is very tolerant of my buying radio goodies once in a while (no, I will not trade her for yours). I the two different radio hobbies compliment each other well. When the propagation isn't good enough for my 500 watts, I turn to SW listening (that 500 kw gets through anything!) And finally, another hobby that was inspired by my SW listening is international Pen Pal correspondence. Learning about other countries from friends who live there adds to the enjoyment of SW radio. Corresponding with Pen Pals in the USSR [former, what a difference a few months makes - ed.] As you can see, I have a lot of different interests within the radio hobby. I think that diversity is one of the primary attractions of the hobby. Well, that's it. 73 and good DX to all!"

Amen to your observations, Tim. And thanks for the visit. Tim also mentions he is into some Utility, weather FAX, AMTOR, packet radio and satellites! A busy guy, indeed.

That's it from here, too, as I do battle with the WWKB harmonics. Till next till, 73's and great DX!!



## Resonance Concluded (But not the final word...)

Way back in October we looked briefly at the combination of inductance and capacitance combined in two particular ways to form resonant circuits. In the interim, I suffered from repeated acts of mail vandalism. Somewhere right now some punk kid knows all about resonance...

Recall that when an inductance and capacitance are in series (see figure 1) they are referred to as a series-resonant circuit.



Figure 1 - Series Resonant Circuit

When they are in parallel (see figure 2) they are called a parallel resonant circuit (the logic astounds, doesn't it?).

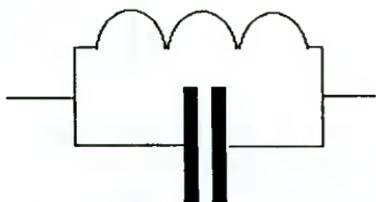


Figure 2 - Parallel Resonant Circuit

We calculated the resonant frequency for both types of resonant

circuits in the last column. Remember that although a given capacitance and inductance will have the same resonant frequency whether in series or parallel, the two circuits will behave in totally different ways.

And this leads us to two practical circuits I promised you some time ago. The first will be of interest to those of you who suffer from broadcast band (BCB) interference.

### A BCB Filter

Let's say that you live in the shadow of KFI, a 640 khz, 50,000 watt clear channel AM station in Los Angeles. First, you have my condolences. Living in L.A. is the pits. Second, you likely have a big problem when you attempt to listen to anyone around 1.28 Mhz, 1.9 Mhz, 2.56 Mhz, or any other multiple of 640 khz. Why? Because the STRONG signal from KFI will find its way into your receiver, and mix (and re-mix) with your first I.F. section, creating a phantom signal that will compete with real ones. If the problem is particularly severe, it may obliterate all signals, and make you receiver appear dead.

For the record, I like KFI, and use them only as an example of a strong station with towers near a metropolitan area. The problem station could be anyone (and not necessarily limited to the broadcast band). First, try to identify the

frequency. If you hear call signs, that's positive I.D. Just look them up in a frequency guide.

Once you have found the offending frequency, it is a simple matter of using the resonant frequency equation to calculate the component values that will resonate *at* that frequency. But where do we start, if we are free to use any component values we wish? It is best to start with a large value of inductance that you know is available. It can be either one you have in your junk collection, or one available from a parts store (yes, a few do still exist - Mouser Electronics is a good example).

With our KFI example, let's assume that we have a 10 mH (that's 10 millihenries, or 0.01 Henries) coil available. Recalling that our offending frequency is 640 khz, we use a variation of the resonant frequency formula to find the correct value of capacitance:

$$f = \frac{1}{2\pi\sqrt{LC}}$$

re-written:

$$C = \frac{1}{4\pi^2 f^2 L}$$

Now remember, the resonance formula requires component values in Farads and Henries, so we must convert. Our inductor is 10 mH, which I already mentioned was the same as 0.01 H.

Let's plug in our values:

$$C = \frac{1}{(12.56)^2 \times (640,000)^2 \times 0.01}$$

$$C = 1.55 \times 10^{-12} \text{ Farads}$$

"Swell" you say. "My parts catalogue doesn't list values in Farads. And

what does "x 10<sup>-12</sup>" mean?" I'll share a little shortcut with you. Our component values are rated in millihenries and microfarads because in practical circuits the values used are tiny fractions of a Henry or a Farad. Since our resonant frequency formula uses Henries and Farads, the results are very tiny numbers. But here's the shortcut: when you see x 10<sup>-12</sup> think "pico" (pronounced pee-ko), when you see x 10<sup>-6</sup> think "micro," and x 10<sup>-3</sup> becomes "milli." So our answer of 1.55 x 10<sup>-12</sup> Farads is none other than 1.55 mfd. This is very close to the standard value of 1.5 mfd., but if our value was not standard, we would have two things going for us: first, component values vary somewhat from the printed values (as much as 20%) so you can experiment with a few capacitors until you find the one that works the best. Second, we can combine two capacitors in series to approximate the value we want. To do this, use the formula for capacitors in series, and plug in some standard values until you find two that fit:

$$C_t = \frac{C_1 \times C_2}{C_1 + C_2}$$

So, how do we connect these two components? We connect them in series with each other, and in series with the antenna line:



What if you had two or even three stations to contend with? Simple. You build one circuit optimized for each frequency, and put them in series. Remember, a series resonant circuit only stops the frequency for which it was designed, and allows others to pass.

## A Useful Parallel Resonant Filter

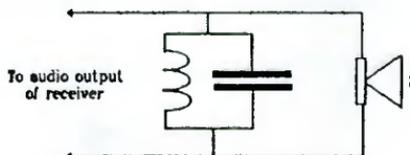
Now that we've had some practice with series resonant circuits, how about something useful in the way of a practical parallel circuit?

Let's assume that you want to listen to CW (continuous wave, or Morse Code) and don't want to be bothered by other nearby stations. You could always invest a cool hundred dollars in a ceramic CW filter for your receiver's I.F. - assuming they are available for your receiver. There's a better and cheaper way to accomplish audio filtering: construct a parallel resonant filter for the tone you find most pleasant while listening to CW. Remember, you can either vary your BFO or tuning, depending upon your receiver, to yield any audio tone you please. Let's assume you like 400 hz (a rather common frequency). We will assume, as we did in the series resonant exercise, that we have an inductor on hand, and need to calculate the value of a capacitor. Remember, we can use the same equations as for series resonant circuits; only the hookup differs.

If we re-use our 10mH inductor, and shoot for a frequency of 400 hz, we find that we need a capacitor of  $1.58 \times 10^{-6}$  Farads. Aha! There's that "x 10<sup>-6</sup>" thing I told you about! To convert to a useable value remember that "x 10<sup>-6</sup>" is the same as "microfarads." So our capacitor is a 15.8 mfd capacitor. 15 mfd is a common value, so we can experiment with a few until we find one whose tolerance (variance from the printed value) puts us closer to 15.8 mfd. Considering most capacitors are at least 15% away from the printed value, this shouldn't be hard.

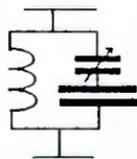
Once again, we have our

values, but how do we connect the parts together? Check out figure 3:



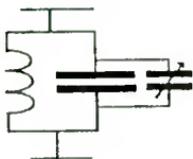
The circuit we just looked at isn't limited to audio frequencies. Let's assume there is a particular weak station you like to listen to on a regular basis. As is always the case, let's also assume there are several strong stations nearby. You can construct a parallel resonant circuit using the frequency of the desired station as its resonant frequency. Then place the circuit across the antenna input terminals of your receiver.

This leads me to another little trick that you can use to "fine tune" your resonant circuits - whether they are series or parallel resonant. The trick involves using a "trimmer" or "padder" capacitor. A trimmer capacitor is a small, variable capacitor that is placed in series with a larger capacitor. Its effect is to "trim" some of the capacitance off of the main capacitor (lower its effective value). Here's how a trimmer would be placed in the parallel circuit:



It doesn't matter whether you are trimming a capacitor in a parallel or series resonant frequency, a trimmer capacitor is always placed in series with the main capacitor. It will subtract from the total capacitance - how much depends upon whether it is set to maximum or minimum value.

A padder capacitor *adds* value to the total capacitance. It is placed in a circuit as shown below:



Note that the capacitor is now in parallel with the main capacitor. This will add value to the total capacitance; how much depends again on whether the variable capacitor is at minimum or maximum value.

All circuits contain stray capacitance from wiring and leads, which themselves can act as small value capacitors. Using trimmer or padder capacitors provides a way to compensate for these stray values.

## Tuners, Preselectors, and Preamplifiers

These little gems cause as much confusion as resonant circuits and antennas to even the seasoned SWL.

Brian Boulden of Fairfield, CA, wrote with some excellent questions about the actual differences and relative effectiveness of each device on receiving weak signals.

It is considered axiomatic that anything you can do to boost, clarify, or narrow the signal you are hearing is of benefit. Not so! Some devices are at best a waste of money, and at worst they can *degrade* a signal. What devices you should use depends entirely on what problem you are attempting to deal with.

For a simple weak signal, a preamplifier is often some help - provided it doesn't boost the signal so

much that the front end of your receiver is overloaded. If the signal is "weak" because it is buried in noise, a preamplifier will only make the situation worse, because it will boost the noise right along with the signal! In this case, you might want to try something that will clarify the signal or otherwise make it stand out from the noise. The first method of choice is to use a narrower I.F. filter.

In some receivers you can purchase and add I.F. filters. Others don't have this capability, or their filters are simply poor to begin with. In this case, adding an audio filter can be almost as effective. And audio filter allows you to limit the lower and upper frequency range of the received audio, and they often allow you to insert a notch anywhere inbetween the low and high end. If your problem is low frequency growl or rumble, you simply restrict the low frequency response. If you suffer from high frequency hiss or SSB bleed-over, you limit the high frequency response. And, if you have a heterodyne (squeal) in the middle of your signal, you insert the notch and adjust it to extract the squeal. Remember, surprisingly little of an audio band of frequencies is needed to understand what is being sent! By the way, the term "active audio filter" simply means that the filter contains an amplifier to make up for overall audio signal strength lost during filtering.

## Preselectors/Tuners

Preselectors are a form of tuner that restricts the frequencies admitted to the receiver. If you suffer from strong local signals overloading your receiver, a preselector can help. An antenna tuner matches a less than optimal antenna to a receiver - and that's about all. And that's all for this month!

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Fred Kohlbrenner  
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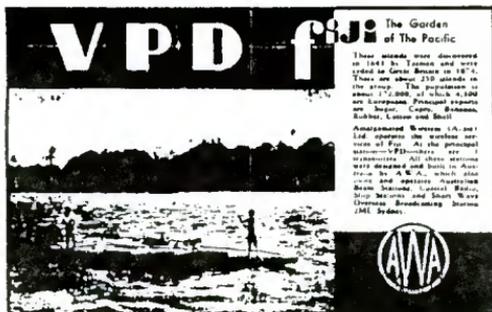
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# the CPRV page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

JERRY BERG, Chairperson • 38 Eastern Ave. • Lexington, MA 02173 • (617) 861-8481



**The Garden of The Pacific**

These islands were discovered by James Cook and were called the Garden of the Pacific. The name was given to the group by the Portuguese in about 1770. One of Cook's ships was the Porpoise. Principal exports are Sugar, Copra, Betelnut, Rubber, Lotus and Shell.

**Amalgamated Wireless (A.W.A.) Ltd.** operates the wireless service of Fiji. At the principal station—Fiji—Suva, there are 1000 ft. towers and built in Australia by A.W.A., which also owns and operates Australian Ocean Stations, Central Station, Deep Sea and Short Wave Stations. Broadcasting Station JMI Sydney.



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**FIJI BROADCASTING COMMISSION**

Dear Sir,

Thank you for your report on the reception of station **VPD** on **7540 kHz** on **December, 1962**.

We have pleasure in advising that your report is commended.

If you might have had any confidential information to allow us to confirm this report.

*Frank Stirling*  
Manager.

Broadcasting House,  
Suva

23 FPM 10-62

Alas, FIJI is one of those places that has disappeared from the SWBC bands after a long shortwave history. +++ At the top is the card with which many DXers were rewarded in the mid-1930s. The station tested at one time on 8720 kHz., but eventually it settled on 9540, which is where it was heard by many U.S. DXers in the morning hours, closing at 1000 GMT with "God Save The King." +++ The card in the middle was used from the late 30s into the 40s. At that time the station was on 6130 kHz., equipped for 10 kw, but actually using only 500 watts. Its purpose was to carry the 2JV-920 medium wave programming to the outlying islands. +++ The one at the bottom is a colorful, nicely designed card in red, yellow and green. It is not mine, but I have one just like it from 1960, one of my all time "best logs." I can still remember the 3:00 a.m. call from my late high school DX friend, Alan Roth, Bridgeport, CT, getting me out of bed to log this rare (on the east coast) 250-watter on 5980 kHz. I never was able to explain that call to my parents. +++ A reminder that full details about CPRV and how to arrange for the long term health of your QSLs can be obtained from JB for a business size SASE. Till next time --

A Committee of the Association of North American Radio Clubs

# Listener's Notebook

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

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

**ABU DHABI** - *R. Abu Dhabi* opens at 2200 on 11965 kHz in EE followed by Holy Koran. Freqs are announced as 7215, 9600, and 11965 kHz. The transmission closes at 2200. (AC on DXPL 2/15)

**AFGHANISTAN** - *R. Afghanistan* (tentative) on 4740 kHz at 1342 1/11; man talking in Pashto or Dari, music; man talking at 1345 mentioned Afghanistan. Unnamed source says Radio Moscow World Service is using former R. Afghanistan relays inside the Soviet Union at 0130 on 4740 and 4940 kHz. (Bruce MacGibbon on RJDXC 1/19)

*R. Afghanistan* broadcasts in English from 1800-1900 on 6145, 7215 and 9635 kHz. 6145 offers the best reception in NZ, but suffers from severe splatter. (AC on DXPL 1/19)

*(Clandestine)* - *Radio Message of Freedom* (Dari: "Radio Payam-e Azadi") heard 1/25 announcing sked as 0130-(?0300) and 1400-1500 on 7100 kHz. (WBI 1/31) Sked now confirmed as 0200-0300 & 1400-1500. 30 minutes each in Pashto, then Dari. (WBI 2/7) Station now says it broadcasts daily at 0115-0315 & 1400-1500. On 2/11 announced 7090 rather than 7100 kHz. (WBI 2/14) No indication what frequency BBCM was tuned to while listening to these anmts. [df]

*(Clandestine)* - *Voice of Unity*, formerly known as the Voice of the United Muslim Fighter (Mojahedin) of Afghanistan, has not been heard on its usual frequencies or at its previously scheduled transmission times since at least November 1991. It was first heard in 1980 and, in recent years, gave an address in Hamburg, Germany, although the transmitters were thought to be in Egypt. (WBI 2/14)

**ALASKA** - *KNLS*, Anchor Point, heard at 1300 in EE on 7355 kHz with popular music and gospel messages; blocked at 1330 by R. Moscow (on 7360?) in an Asian language. (AC on DXPL 1/19)

**ALGERIA** - BBCM reports that *RTV Algerienne* has two EE xmsns on SW, 1700-1800 on 17745 and 9535 kHz for East Africa and the Middle East, and at 2000-2100 on 11715 kHz for Europe. (Andy Sennitt on RNMN 2/13)

**ANGOLA** - *Radio Nacional*, 11954.8, from 0530 music & talk, 0600 PP news; fair 12/24. (Ernie Behr, Kenora, Ontario)

*(Clandestine)* - *Voice of the Resistance of the Black Cockerel*, 7100 kHz, closes with "God Bless Africa" anthem, per report on WoR; I did not use the word "America" in January LN. (Ernie Behr) Sorry, guess I need new glasses. (df)

**ARGENTINA** - *R. Continental*, Buenos Aires, was heard 1/14 from \*2240-2320\* on 9115 kHz USB with fair signals, in SS w/frequent ads & full ID at 2303, which was followed by a report from a football game between Argentina and Brazil. (Nobuaki Takahashi on RJDXC 1/26)

**AUSTRALIA** - *Radio Australia* schedule of the General English Service (freqs marked "x" carry a separate sports program Saturdays at 0100-0630): 0000-0100 11720, 11880, 15160, 15240, 15320, 15365, 17750, 17795, 17880, 21740; 0100-0200 11720x, 11880x, 15160, 15240x, 15320, 15365, 17630, 17750, 17795, 21525x, 21740x, 21775x; 0200-0400 11720x, 11880x, 15160, 15240x, 15320, 15365, 17630, 17750, 17795, 21525x, 21740x, 21775x; 0400-0500 11720x, 11880x, 15160, 15240x, 15320, 15365, 17795, 17880, 21525, 21740, 21775; 0500-0630 11720x, 11880x, 15160, 15240x, 15320, 15365, 17750, 17795, 17880, 21525x, 21740x, 21775x; 0630-0700 11720, 11880, 15160, 15240, 15320, 15365, 17750, 17795, 17880, 21525, 21740, 21775; 0700-0730 11720, 11880, 15240, 15320, 21525, 21740, 21775; 0730-0800 11720, 11880, 15240, 21525, 21775; 0800-0830 15160, 15240, 17630, 17750, 21775; 0830-0900 15160, 17630, 17750, 21775; 0900-1000 7140, 9580, 13605, 15160, 15170, 21720; 1000-1100 9580, 15160, 21720; 1100-1200 6020, 6080, 7140, 7240, 9580,

9710, 13605, 15160, 15170, 21720; 1200-1230 6020, 6080, 7240, 9580, 9710, 21720; 1230-1300 5995, 6080, 7240, 9710, 21720; 1300-1430 5995, 6080, 7240, 9580; 1430-1530 5995, 6060, 6080, 7240, 9580, 9710, 9770, 9860, 12000, 13755; 1530-1600 5995, 6060, 6080, 7240, 9580, 9860, 12000, 13755; 1600-1900 5995, 6060, 6080, 9580, 9860, 11910, 12000, 13605, 13755; 1900-2100 5995, 6060, 6080, 7240, 9580, 9860, 11910, 12000, 13605, 13755; 2100-2130 5995, 6060, 6080, 11720, 11880, 13705; 2130-2200 11720, 11880, 13705, 15320, 15365, 17795; 2200-2300 11720, 11880, 13705, 15160, 15320, 15365, 17795; 2300-2400 11720, 11880, 15160, 15320, 15365, 17795. (WBI 2/14)

**BAHRAIN** - Bahrain is heard in New Zealand with EE at 1800; English announcements on 6010 and 9745 kHz. (AC on RNZI 2/2) R. Bahrain was heard in Japan from 2030 to signoff at 2110 12/31 on 9746 kHz. Reception was fair, without interference. The program was EE music until 2100, then Arabic. R. Bahrain can also be heard in Japan on new 6010, with American-style mx px at 1730 and ID "Good Evening, Radio Bahrain" at 1800. (Nobuyoshi Aoi on RJDXC 1/19)

**BHUTAN** - R. *Bhutan* heard on 5025 kHz with EE after 1415, including short local news items with music breaks; from 1430 on with continuous pop music to s/off at 1500; no detailed announcement at closing. (AC on DXPL 1/19)

**BOTSWANA** - I requested a QSL for the new VOA Botswana relay 12/21/91 0258-0330, 11940 & 7265 kHz. (Frequencies mentioned in LN.) Response from VOA was negative: "Can not verify. They also sent a frequency schedule (9/28/91 - 3/28/92) which shows no operations on these frequencies, nor any operations from Botswana except the MW 621 relay. Sounds like the Washington office is the last to know about this new relay. And Botswana still not verified. (Jim Renfrew, Rochester, NY) I found out this had happened to [hopefully only] a few people and traced it to someone who was helping with the QSL task on a time available basis, and did not have the Botswana Relay data. Hopefully it has not occurred since. Anyone who got such a response can resend the report to the "Botswana QSL Desk", which should yield a QSL for correct reports. (Dan Ferguson on the VOA Frequency Division BBS)

**BOUGAINVILLE** - Apart from the local broadcasts on 3880 kHz, *Radio Free Bougainville* and "worldwide" bcsts on a USB frequency "between 21450 and 21500 kHz" at 2300 and 0600 to the Americas; 0400 and 0700 to Africa, Asia and the Pacific; 1300 and 1400 to Europe. Letters could be sent to the Humanitarian Aid Coordinator, P. O. Box 1203, Honiara, Solomon Islands; fax number 677 20736. (WBI 1/31) Sked given in WBI 2/7 shows English at 0100, 0400, 1300, 1600 & 2300, all on 21450v (usb), as well as 0750-1120 in English & Pidgin English on 3880 kHz. Also announces address as s/o Sam Voron, Intl Amateur Radio Network, 2 Griffith Ave., Roseville, NSW 2069, Australia. (WBI 2/7) Has been heard in Australia at 1100 on 21450 kHz. (Mike Ogrizek in Feb ADXN)

RFB is being heard with weak signals in NZ after 0858 on 3880 kHz. The announced freq is 3890 kHz. The power of the xmtr can't have been more than 1 kw. (Brian Clark, NZ, on RNMN 1/30) R. Australia reported 1/26 that a station in (Aroua) was being financed by church groups in Fiji and Australia, in cooperation with the International Amateur Radio Network. BBCM at Caversham also heard a transmission from 0750-1120 on 3880 kHz 1/28. A BBCM monitor in the area reported an announcement promoting transmissions at 2300 and 0600 to the Americas, 0400 and 0700 to Africa, Asia and the Pacific, and 1300-1400 to Europe, all between 21450-21500 kHz USB. Letters may be sent to: Humanitarian Aid Coordinator, P.O. Box 1203, Honiara, Solomon Islands, fax number (677) 20736. VK2BVS is said to be asking A\$5.00 for a QSL card and a copy of the station's license. (JM and Richard Measham, RNMN 1/30) [Looks like the Turgid Force is with you, Al Q.---mf]

From a report on R. New Zealand Int'l 2/7 at 0800: Australian Sam Voron might face criminal charges when he returns to Australia. Papua New Guinea has claimed he entered PNG to set up a radio station for the rebel Bougainville Revolutionary Army. He had told his family and friend he was on a humanitarian mission to Bougainville. From a report on Radio Australia 2/7 at 0700: The Foreign Affairs Minister said they were examining whether he could be charged under the Foreign Incursions Act. (WBI 2/14)

**BULGARIA** - R. *Sofia* heard in EE from 0400-0615 on 11720 and 11765 kHz; 1830-2000 on 9700, 11680, 11720 and 11735 kHz. (AC on DXPL 2/15) Horizont noted on 11660 & 7670 kHz with US pop music 0530-0600+, 2/8. 7670 is not listed in the current WRTH, and 11660 is on earlier than scheduled 0830. (Jim Renfrew, NY)

**BURMA** - *Radio Myanmar*, 5990, from 1415 local mx, 1430 English ID & pop music, 1445 EE news; fair 12/26; same ID as in Jan LN. (Ernie Behr)

**Myanmar Defence Forces Station**, 6570, from 1250 Burmese talk & music to 1330\*; fair 1/6. Location reported as Maymyo or Tanggui. (Ernie Behr)

**CAMBODIA** - *R. Phnom Penh* has an evening program in EE on 11937 kHz at 1200-1215 features a mailbox and request program on Sundays. (AC on RNZI 1/19)

**CHINA** - *CPBSI*, Beijing, heard at 1615 1/16 on 6040 kHz with Chinese music //6125 and 7504 kHz. Heilongjiang PBS heard at 1028 1/11 on 7350 kHz; ID at 1029; unreadable after 1059 when WYFR signed on 7355 kHz. (Bruce MacGibbon on RJDXC 1/19)

*Radio Beijing's* Chinese service was renamed to *China International Radio Station* on February 1. Address is Chinese Department, Box 565, Beijing, or Chinese Department, Box 11036, Hong Kong. (WBI 1/31, quoting R. Beijing)

**COLOMBIA** - *Radio Nacional* has the English language program Colombia DX Saturday 2330-2400. There's a Spanish version Sundays at 0115 gm. Frequency is 11822.5 kHz. Reports should go to P. O. Box 94321, Bogota. (Jeff White on RNMN, 1/23, via WBI 1/31)

**CONGO** - *Radiodiffusion Nationale Congolaise*, Brazzaville, sked: 0400-0700 on 4765, 5985; 0700-1100 on 7105, 9610; 1100-1700 9610, 11710, 15190; 1700-2400 on 4765, 5985. The station has also used 3265, 6115, 7175, 9715, 11710 kHz in the past. (WBI 2/14) *Radio Congo*, Pointe Noire, operates on 4843 kHz at 0445-0700, 1030-1330, 1445-2000. (WBI 2/14)

**COSTA RICA** - *R. Casino*, Puerto Limon, 5954 kHz, heard at 1238 in SS; talk about Costa Rican economy; poor signals. (RMV/QLB/DXPL 1/25)

The SW relay station for *Radio Espana Exterior* being built in Costa Rica is nearing completion. No test frequencies had been released as of 2/5. (JM on RNMN 2/6)

**CROATIA** - *Croatian Radio* was back on 7240 & //9830, since 1/25, from 2200 Croat and English news, 2210 pop songs & Croat news on the hour, past 0200; very strong signal, maybe new transmitters, but gone a few days later. Since 1/31 only Radio Moscow & Kiev on 7240. Croatia no longer heard on 6210v, since January. (Ernie Behr)

*Croatian Radio* announced that listeners in America can listen to "Chronicle of the Day" at 2100 gm on 17272 kHz. [as heard] (WBI 1/31)

**CUBA** - *Radio Havana Cuba* sked as of 2/4: English to Am 0000-0200 on 11950; 0200-0400 on 11950, 13700; 0400-0500 on 6180, 11760, 11950, 13700(to 0430); 0600-0800 on 11760. At 2000-2100 to Eu/ME on 17705 & 9760-R; 2200-2300 to Eu/Am on 9620, 7215-R.

Spanish to Am at 0000-0200 on 9550, 9620, 11760, 11875, 13700, 15230; 0200-0400 on 9550, 9620, 11875, 15230; 0400-0500 on 9620, 11875; to Eu/ME at 0600-0700 on 15105; to Am at 1100-1500 on 5965(to 1400), 6180, 9505, 11760, 15340, 17750; to Eu/ME/Af at 1800-2000 on 9515-R, 9590-R, 11920-R, 17770.

Other languages: Arabic 1800-1900 to Eu/ME on 9760-R, 17705; Creole at 0200-0300 on 11760; 2100-2200 on 9620. Esperanto 2100-2130 Su to Eu/ME on 17770. French at 0300-0400 to Am on 11760; 1900-2000 to Eu/ME on 9760-R, 17705; 2100-2200 to Eu/Af on 7215-R; 2300-2400 to Am on 9620. Guarani at 2300-2400 to Am on 15340. Portuguese at 0700-0800 to Eu/ME on 15105; 1000-1100 to Am on anc 15340; 2000-2100 to Eu/Af/ME on 9515-R, 9590-R, 11920-R, 17770; 2200-2300 to Am on 15340; 2300-2400 to Am on 15230. Quechua at 0000-0100 to Am on 15340; 1000-1050 (freqs not given). Freqs marked "R" are Russian relays. (WBI 2/7)

**DOMINICAN REPUBLIC** - *R. Enriquillo*, Tamayo, 1020 kHz, was closed down \*2/16\* by order of President Balaguer. The station, (which is owned by the Catholic Church?), had been broadcasting pgms in Creole to Haiti. (HCJB EE News, 0230 Sun 2/16, via Mike Fern--CA)

**ECUADOR** - *R. Nacional del Ecuador* has a 30-min program each weekday Mon-Fri via HCJB on 15350 kHz at 1730-1800. "Cartas para los Ecuatorianos Ausentes," or "Letters to absent Ecuatorians" is the subject of a special agreement with HCJB. Reception reports sent care of HCJB's DXPL will be verified by a QSL from R. Nacional del Ecuador. (RMV/DXPL 1/25)

*HCJB* has a new (and permanent) mail address: P.O. Box 17-17-691, Quito. The original mail box, in the central post office in Quito, will be used until the end of 1992. Its number in the new Ecuadorian postcode system is 17-00-00691. The new box is in a branch closer to the HCJB studios. The first "17" stands for Pichincha, the province in which Quito is located; the second "17" is for Post Office No. 17. (RMV on DXPL 2/1)

A station on 3380 kHz was heard 12/13 and 12/14 by Bjorn Fransen of Sweden with typical Ecuadorian folk music, and possible mentions of Limon, as well as Ecuador, between songs. Heard

under heavy QRM from 0119-0212. WRTH 91 lists a "Radio Nacional, Limon" on 3370 kHz in Limon Indanza with 250 watts. Limon Indanza in southeast Ecuador is two full days' drive from Quito. The station has not been heard by RMV or KMH in Quito. No one at R. Nacional in Quito could provide information over the phone. Sr. Osvaldo Benavides of the Ecuador National Frequency Office said the station was not on the air. He said the only new frequencies under consideration were for La Voz del Upano in Macas and a new cultural station in Cuenca. (Finn Krone, Danish SW Clubs Int'l, January 1992, and RMV on DXPL 1/18)

RMV visited *Radio Pastaza*, Puyo, the weekend of 1/11. One of its directors, Sr. Jose Vinyan, says the SW outlet has been silent for 18 months. They left the air because of xmtr problems. Then the SW freq was revoked by the National Frequency Office. The MW station on 1370 is on the air, but not daily. R. Pastaza is owned by the Professional Chauffeurs' Syndicate and is having financial problems; the future of the SW outlet is uncertain. (RMV on DXPL 1/18)

The VOA and HCJB both use 21455 kHz. At Tony Barrett's location in southwest England, he hears VOA on the lower side band and HCJB on the upper sideband. (Tony Barrett, UK, on RNMN 2/6)

Ecuador is suffering a severe power shortage caused by a drought which began about Dec. 1. Several hydro power plants are in the drought areas. Power companies have had to ration electricity because of low water levels behind the dams. Power delivery is limited to certain hours. Severe surges occur when the power is turned on in a given area. The surges cause damage to electronic equipment, including radio transmitters. Ecuador's radio stations have been suffering from the resulting spikes. One such spike has shut down the SW transmitter at R. *Ecos del Oriente*, Lago Agrio, on 3270 kHz. Parts are hard to come by in Eastern Ecuador, but the station will return. *Ecos del Oriente* has an impressive QSL in the form of a certificate which can be framed. (RMV/DXPL 2/8)

R. *Cumanda*, Coca, is active on 3350.5 kHz; try for them at 1100 or 0300. R. *Cumanda* was silenced by a voltage spike in November but returned to the air around New Year's Day. Logged in US by Chuck Bolland, and Dave Valko, PA between 0938-1053. One slogan is "Radio Cumanda, al servicio de la provincia y el pais." R. *Tucuyen*, 4212 kHz, unofficial, has been irregular; tent log i PA by Dave Valko at 1100. (Fine Tuning /RMV/QLB/DXPL 2/8)

R. *Antena Libre*, Esmeraldas, 3240 kHz heard with good carrier but poor modulation at 0051; left air abruptly at 0105. The station had been silent from late 1990 to 2/1/92, when it began testing. Try at 1100 or 0100. R. *Luz y Vida*, Loja, 4851 kHz, is back on after many weeks' absence; heard at 0115 with romantic music, ID and time checks; very good signals in Quito; also at 1145 2/6 with Ecuadorian music. *La Voz del Saquisilí y Libertador*, Saquisilí, 4900 kHz, silent for 14 months, returned in 2/92; clear, strong signals 2/6 in Quito; ads for "disco mobiles" or traveling DJ's. Hours are limited by power rationing. *Radio Centro*, Ambato, 3290 kHz, not heard in early February, almost certainly because of the drought. *Sistema de Emisoras Progreso*, Loja, 5062 kHz, has been silent for several weeks. (RMV/QLB/DXPL 2/6 & 8)

Stations normally active are: *La Voz del Napo*, Tena, 3280 kHz; *La Voz del Rio Tarqui*, Cuenca, 3286 kHz; R. *Catolica Nacional*, Santo Domingo, 3395 kHz; *La Voz de Las Caras*, Bahia de Caraquez, 4795 kHz; R. *Popular*, Cuenca, 4800 kHz; R. *Interoceanica*, Santa Rosa de Quijos, 4840 kHz; R. *Quito*, 4920 kHz; R. *Bahai*, Otavalo, 4950 kHz; R. *Federacion Shuar*, 4960 kHz; *Escuelas Radiofonicas Populares*, Riobamba, 5011 kHz; R. *Catolica Nacional*, Quito, 5030 kHz; *La Voz del Upano*, Macas, on 5040, 5965 and 6000 kHz; and R. *Jesus del Gran Poder*, Quito, 5050 kHz. (RMV/QLB/DXPL 2/8)

EGYPT - *Radio Cairo*, 9990v, from \*1800-1900\* Italian; since 1/17. Some days on 9992v, but at 1900 moves to 9900 in German. One day mixed w/bubble jammer, which also moved from 9990 to 9900 at 1900, app an Egyptian jammer at the same site. (Ernie Behr, Kenora, Ontario)

EL SALVADOR - *Radio Venceremos* lives! Under terms of the peace pact signed 1/16, R. *Venceremos* moves to San Salvador and becomes an open, legal station. "What is clear is that the guerrilla radio is dead," its presenter, Santiago Gallo, told the Los Angeles Times. "We have to change its language, insert ourselves into the competition and make professional radio. ... The danger now is in making dogmatic and rigid radio, in not making the leap from a guerrilla radio, and in believing what we believed in 1981--that we were the owners of all truth." (Los Angeles Times 2/11 via Mike Fern) [as usual, freqs not given.--mf]

The FMLN station *Radio Venceremos* was noted 2/12 at 0053 on 6750 with a broadcast in progress. It signed off at 0123. Again noted s/on 0157 w/NA and program preview. Program ran till 0320. The station announced transmissions at 0000, 0200 & 1200 on 6.7 MHz & 100.5 MHz. (WBI 2/14) I'm noting a het against the RTTY on 6750 at 2355 2/21. Frequency varies. Some talk by a woman may be s/on announcements. Fairly clean in sync mode on the upper side, but weak & difficult to pull an ID or any details. [df]

*Radio Farabundo Marti* will seek legal status. "we do not plan to be subsidized, but we are hoping to have advertisements ..." The stations 11th anniversary was January 22. (WBI 1/24)

**EQUATORIAL GUINEA** - *Radio Africa*, 7190.4, from 2100 English religious program and NA to 2302\*. Very strong 12/22. Next day on 7203.3, switching freqs almost daily. (Behr)

**FRANCE** - "We know that in your country, a lot of people are interested in SW listening, as a hobby, as much as a way to improve their knowledge of other countries. Among these countries, France strives to be present and I am pleased to tell you that Telediffusion de France is beginning to renew its short-wave stations in Allouis-Issoudun.

In the next five years, 15 new 500 kw HF transmitters associated to rotatable-adaptable antennas will replace 12 existing 100 kw HF transmitters and their fixed antennas.

In French Guyana, one more 500 kw transmitter will extend the existing capabilities." (Mr. Xavier Gouyou Beauchamps, President of Telediffusion de France (TDF), in a letter to George Poppin, San Francisco, CA)

**GEORGIA** - *Georgian Radio* First Program is carried on shortwave at 0300-1600 on 5040 & 7125 kHz; at 1600-2100 on 5040 & 15240 kHz. The Second Program is at 0230-2300 on 4875 kHz (WBI 2/7)

**GERMANY** - *Deutsche Welle's* Director-General, Peter Weirich, said DW wants US\$ 18-30 million to increase broadcasts to Eastern Europe, to compete with the BBC, RFI, and VOA, etc. United Germany wants to play a bigger role in Europe, and sees democratization in the east as a chance to assert itself politically, economically and culturally. DW's expansion plans include leasing an FM station in Sofia, Bulgaria, to reach an audience of about 2 million, and increasing cooperation with local radio stations to broadcast DW programs in GG and East European languages. Weirich also said that the German and U.S. governments are close to signing a pact handing over control of RIAS TV in Berlin to DW. RIAS radio will be sold off. RIAS TV is expected to change hands in May. (RNMN 1/30)

**GREECE** - *Voice of Greece*, Athens, broadcasts to Australia in Greek from 1000-1040, EE at 1040-1050, on 15650 and 17525 kHz. (AC on DXPL 1/19)

**GRENADA** - The Hub of Light, a new religious station on the Grenadan island of Carriacou, is on 1400 kHz with 5 kw. It is being heard between 0958-1430 and \*2300-0100. The address is Hub of Light of the Windwards, Carriacou, Grenada. The phone is 443-7628. It carries VOA news at 1000 and BBC news at 2300. (Rabindranath Sudian, Surinam DX Club, on DXPL 2/1)

**GUINEA** - *RTV Conakry* on 7125, from 2300 talk, African music & NA to 2400\*; fair 12/22. Followed by VOA in Uzbek on same frequency; what site? (Ernie Behr) Gloria. [df]

**HONDURAS** - *Sani Radio HRRI*, 6299.36, from 0000 LA music, SS/Miskito talks to 0601\*; heard UTC 12/25 only; other days to 2400\*. (Ernie Behr)

**HONG KONG** - *BBC* East Asia Relay on 21715 kHz heard signing on at 0258 with Bow Bells and pre-recorded ID. Fair signals, usable until about 0330. (Mike Fern-CA)

**HUNGARY** - Hungarian Radio announced 1/25 that, from 1/26, the Hungarian Service of the *Voice of America* would be broadcast on the VHF transmitters of Kossuth Radio at 1200-1300 Monday-Tuesday and 1500-1600 on Wednesday-Sunday. (WBI 1/31)

**INDIA** - ATA, New Delhi's standard time and freq stn, returned to the air in mid-January. Prof. Das Gupta, an executive at the station, told VG that it had been decided to close down in December. It seems RN's expression of listener interest has revived the stn. (VG on RNMN 1/30)

**INDONESIA** - The *Voice of Indonesia* is heard in India from 2000-2100 on 11755 kHz; at 0100 and 0800 on 11785 kHz. One program claimed the Vol gets the most reports on its EE service from Nigeria. (Sarobar Rastogi, New Delhi, India, on DXPL 2/15)

**IRAQ** - *R. Baghdad* heard in Arabic 11/23 on 4605v kHz from 1724-1742. (Valery Ostroverkh, Kazakhstan, via Bruce MacGibbon on RJDXC 1/19)

Since at least 12/31 Iraqi radio has been broadcasting ext svc xmsns to the Americas. The daily bcst at 2315-0115 is mainly in Arabic, but w/news & anmts in English. IDs as "This is Baghdad, Radio Iraq International". Arabic ID is "Huna Baghdad, Idha'at al-'Iraq al-Dawliyah".

11830 is to North America, 15455 to SA. Iraqi radio channels believed beamed to Europe, 11740 and 11755 kHz, were checked between 1800-2300 & found to be parallel to 4600 kHz, which carries Iraqi radio's domestic service in Arabic. (WBI 1/24) Baghdad is being heard in Sri Lanka on new 11710 with its main Arabic service from 1500 // 4605 kHz. (VG on RNMM 1/30)

**Clandestine) Radio of Iraqi Republic/ Voice of Iraqi People**, heard on new 9985 since 12/29, from \*1450 in Arabic to 2320\*v; some days on 9980 instead till 2107\*v, then moved to 9570. Since 1/28 on 9985 past 2200; QRM from WCSN; the weak xmtr on 9995 is gone. (Ernie Behr)

UnID Arabic station (probably a clandestine from Iraq) on 7205 since 1/5, from \*1500 TS, AA ID, Quran & talk past 1600; vy strong 1/23. Long ID, including "Saut el-Haqq ... Idha'at ul-Medina ..." (Ernie Behr)

**Voice of Rebellious Iraq** (Sawt al-'Iraq al-Tha'ir) was observed on its new frequency, 6330 kHz, on 1/19. It was also traced on 1431 kHz during its transmission starting at 1730 gmt. The radio was not heard on its former frequency, 7097 kHz. Schedule is 0430-0630, 1230-1430 and 1730-1930 on both frequencies in Arabic. May be one hour earlier in summer. (WBI 1/24)

**Voice of Iraqi Kurdistan** was last traced on 6295 kHz 1/31. Not traced again till found on 4175 kHz 2/2. Since then both the 0430-0600 & 1600-1730 transmissions have been on 4175 & 1615 kHz. (WBI 2/7) No mention of the 5135-5155 frequency given a week earlier for the same broadcasts. [df]

**Voice of the Kurdistan Revolution** sked is 0500-0700, 1400-1545, both in Kurdish & Arabic, both on 6716 kHz. (WBI 2/14)

**ISRAEL** - The Israeli Home Service has been heard on 13750 kHz at 2000 in NZ with time signals, news and popular music. The full schedule is 0400-2300. (AC on RNZI 1/19)

**Kol Israel** heard with Home Service in Hebrew on 13753 kHz with time pips at 2000 and ID followed by pop music; sked is 0400-2300. (AC on DXPL 2/15)

**ITALY** - **Adventist World Radio**, Forli, heard in NZ with EE from 0830-0900 and 1130-1200 on 7230 kHz. AWR also heard via Sines from 0900-1000 on 9670 kHz. (AC on DXPL 1/19)

**JORDAN** - **R. Amman** on 7155 NF in AA at 1622 1/16 with ham radio interference // 11810 (excellent) and 9560 kHz (good with co-channel interference). (Bruce MacGibbon on RJDXC 1/19)

BBC Monitoring reports an anmt on **R. Jordan** that from 2/15 they would carry a new AA svc to SA at 2200-2330 UTC on 15435 kHz. Care is needed when IDing Arabic on this fqy, as it's used earlier in the day by Libya! (Andy Sennitt, WRTH, on the FidoNet Shortwave Echo)

**KAZAKHISTAN** - **Alma Ata** Home Service Second Program heard from 1315-1340 on 4820 kHz 12/12 in Kazakh. Possible replacement for 4395 kHz, //3955 and 5035 kHz with QRM from (Khanty-Manskisk?). (Valery Ostroverkh, Kazakhstan, via Bruce MacGibbon on RJDXC 1/19)

From Kazakh Radio, Alma Ata, 0600 gmt 1/17, an anmt that at 0800 gmt the station would broadcast a recording of the first radio bridge Voice of America/Kazakh Radio. "This action took place on the initiative of the American side. The participants in the radio bridge paid attention to question of the integration of the Republic of Kazakhstan into the world community." A recording of the radio bridge was broadcast at 0813 gmt following the news. (WBI 1/24)

**KOREA (North)** - North Korea's broadcasting stations are under the control of the DPRK Radio and Television Committee. There are two domestic networks: Korean Central Broadcasting Station (KCBS) and Pyongyang FM Broadcasting Station (PFM), plus a station broadcasting to South Korea, called Pyongyang Broadcasting Station (PBS).

KCBS is on the air from 2000-1800 on 819 kHz MW and on 2850, 6100, 9665 and 11680 kHz. Each province has a local station which provides local programs from 0500-0600 during the week. [freqs not given--mf] Local programs are also broadcast on cable from 0500-0600, 1100-1130, and 2030-2100. KCBS' 9665 kHz channel shares its xmtr with the clandestine "Voice of National Salvation" on 4120 kHz, so 9665 is silent from 0930-1730. KCBS opens with an interval signal called "Song of Kim Il-Sung" which is followed by the national anthem. The ID is "Choson chung-ang pangsong imnida." [Six xmtrs listed in WRTH 92 are not in this report: Sariwon 2350 kHz, P'yongsong 3350 kHz, Hyesan 3920 kHz., Kanggye 3960 kHz, Wonsan 3970 kHz, and Ch'ongin 3980 kHz--mf] PFM began broadcasting 1/1/89. Its freqs are: Pyongyang 105.2 MHz; Kaesong 92.5 MHz; Haeju 103.7 MHz, and Hamhung 106.0 MHz. It's on the air from 1000-2000 UTC, or evening to early morning local time, with western classical music, Korean revolutionary songs, pop music and drama. On holidays broadcast time is extended from 2100-2030. Kaesong and Haeju are close to South Korea, which means their signals can reach Seoul. However, they are heavily jammed by the South Korean government. PFM's IS is an arrangement of the first two bars of a song praising Kim Jong Il, "Song of Dear Leader Comrade." The same ID was used by a clandestine station, "Voice

of Revolutionary Party for Reunification" which is now silent. It is followed by a selection titled "Pyongyang is My Heart." The ID is "Pyongyang FM Pangsong Imnida." Time pips on the hour have a low tone at H-3, H-2 and H-1 sec. and a high tone on the even minute.

PBS broadcasts to South Korea from 2100-2030 on 621, 657, 729, 801 and 855 kHz MW and on 3250, 3320, 6250, and 6400 kHz SW. Some freqs close at 1800 or 1900. 6250 kHz shares its xmtr with the clandestine "Voice of National Salvation" and is therefore silent from 0930-1500. PBS also broadcasts on FM from near the Demilitarized Zone. PBS' FM freqs are the same as that of a South Korean station in nearby Kyong-i Province, so the North Korean FM transmitters may act as jammers. PBS carries Radio Pyongyang's JJ service on 621 and 3250 kHz. It begins in the same manner as KCBS, with the IS "Song of Kim Il Sung" followed by the national anthem. In 10/91 PBS began giving an opening announcement making it clear that it was targeted at listeners in South Korea. (Tooru Yamashita on RJDXC 2/16)

**KUWAIT** - Radio Kuwait was to resume shortwave transmissions from a 500 kw transmitter on 2/17. Initial sked was to be 0400-1305 on 6055 to the Gulf and the Arabian Peninsula; also 1315-2345 on 11990 kHz to the Middle East. (WBI 2/14)

Radio Kuwait made a last minute decision to include a transmission for Europe and North America on 15505 kHz, so the actual schedule is now 0400-1305 to the Gulf on 6055 kHz, 1315-1745 to the Middle East on 11990 kHz, and 1800-2300 to Europe and North America on 15505 kHz. Fah R. Bader at the Kuwaiti Embassy in Washington, who sent out a press release about this on 2/18. According to Belgian teletext, there may be an hour of English starting soon at 1800-1900 on 15505, but the press release only mentions the Main Arabic Program. The signal on 15505 is SINPO 44444 here! (Andy Sennitt, WRTH, on FidoNet Shortwave Echo)

(Egypt) Kuwait's KUNA news agency reported 1/17 that transmission of Kuwait Radio from Cairo would be continued for another year. The broadcast started from Cairo at the beginning of January 1991. The time is 1800-2300 gmt. (WBI 1/24)

**LAOS** - National Radio of Laos is scheduled on 7116v kHz at 0000 Cambodian, 0030 French, 0100-0130 English, 0400 Cambodian, 0430 Vietnamese, 0500 Thai, 0530 French, 0600-0630 English, 1130 Thai, 1200 Viet, 1230 Cambodian, 1300 French, 1330-1400 English, 2300 Thai, 2330-2400 Viet. Also 1100-1130 French to Europe via Russian transmitters on 15190 & 17860 kHz. (WBI 2/14)

**LIBERIA** - ELWA is accepting gifts to buy a new xmtr to replace the one destroyed in the civil war. ... In the mail today: ELWA-FM went on the air from Monrovia on January 6. The next step is a 10 kw shortwave transmitter. So far over \$100K of the needed \$315K has been raised. The money in the 2nd phase will go for the xmtr, audio equip., repairs to an antenna, and a building to house both this and a future 2nd xmtr. Addr is SIM, P. O. Box 7900, Charlotte, NC 28241. (Marlin A. Field, Hillsdale, MI)

ELBC, Monrovia, 7275 kHz, from 0710 English sermon by screaming preacher; 0730 ID & hymns to 0800. Fair Sunday 1/19. (Ernie Behr)

**LITHUANIA** - Edvinas Butkus, editor-in-chief of the external service of R. Vilnius, visited the Netherlands for two weeks in January on a UNESCO grant. "Last year, after the January crisis, when the Lithuanian Radio and TV Center was seized by Soviet troops, it was mainly the English Service of Radio Netherlands that devoted a great deal of its attention to various aspects of the Lithuanian media. I am very happy to have been able to personally express my gratitude to Jonathan Marks, head of the English department, who is also a very prominent figure in the DXing world, for the solidarity he demonstrated to us at that critical time. At R. Vilnius, we shall keep the recording of his program, which covered in full the night of Jan. 13, 1991, as a much-treasured relic." Butkus also met Julius Hermanns, a regular listener of R. Vilnius who lives in the Netherlands. "Now that we are back to normal again, it's time that we pulled up our socks as an international broadcaster. ... Our main task now is to secure the most suitable frequencies from the Russian Ministry of Communications." (EB on Vilnius Listeners' Club 1/26)

R. Vilnius broadcast a revised EE sked at 0027 1/20 as follows: 2230 and 0000, both on 666, 17690, 17605, and 7400 kHz, till 3/3. No explanation of what happened to the 49 and 31m freqs. The phone and fax number of R. Vilnius is 66 05 26. The 0000 broadcast on 17605 (and the R. Ukraine broadcast which preceded it) were occasionally interfered with by short bursts of R. Moscow in English. This could be audio crosstalk, interaction between transmitters at the same site, or switching errors. Gave the following EE sked on 1/27 UTC: 2230 on 666 & 9710 kHz; 0000 on 17690, 17605, and 7400 kHz; till 3/3. It also asked for reports on all three of the 0000 freqs for NA later in the program. So there may be a breakdown in communications between the Russian and Lithuanian PTTs. (Mike Fern-CA)

The Lithuanian Radio First Program operates 0400-2200 & is also relayed on SW by a 50 kw xmtr at Sitkunai, 23:49E 55:02N, on 9710 kHz, beamed 259 degrees. The same pgm is also relayed

by a Russian xmtr near Moscow, in Balashika at 37:54E 55:47N, on 6010 and 9675 kHz, 260 degrees. (Sigitas Zilionis, chairman, Lithuanian DX Club, on Vilnius Listeners' Club 1/26)

R. Vilnius said in its broadcast to NA 2/2 that it had learned of big increases in rent for their Ukrainian and Russian SW xmtrs. It could cause R. Vilnius to reduce the number of frequencies used. They went on to say that "If you care about R. Vilnius, report as often as possible about reception conditions in North America." Reports on 9750 kHz at 0200 are particularly welcome. (Tony Barrett, UK, on RNMN 2/6)

Lithuanian Radio announced 1/25 that "from next week" *Voice of America* pgms in Lithuanian would be rebroadcast by Lithuanian radio at 0500 on the 2nd Pgm, & 2030 on the 1st Pgm. (WBI 1/31)

**MALAWI** - The *Malawi B/C Corp*, Blantyre; transmits on shortwave at 0255-0710 on 3381 kHz; at 0710-1400 on 5995 kHz, and 1400-2210 on 3381 kHz. English news, among other times, at 0300, 0500, 2000, 2100, 2200. (WBI 1/31)

**MEXICO** - *XEUW*, Veracruz, 6020 kHz, heard with fair signals 0415-0500 2/9; Mexican vocalists with big bands, frequent ID's ("Equis eh oo, Veracruz"). Best before 0455 because of interference from Sackville on 6015. (Mike Fern--CA)

**NEPAL** - Kathmandu in EE at 1415-1500 on new 7165 kHz //5005 kHz. (AC on DXPL 1/19)

**NETHERLANDS ANTILLES** - *Trans World Radio*, Bonaire, sked as of 1/21: English at 0302-0430 to Am on 9535, 11930; 1100-1330 to Am on 11815, 15345. German at 0955-1030 on 11885; 2325-2400 on 15355. Portuguese at 0655-0940 on 9515, 11885, 2155-2315 on 15375, 15445; 2315-2400 on 15375. Spanish at 0000-0055 on 15355, 15375; 0055-0200 on 11930, 15375; 0400-0500 on 9535, 11930; 0955-1045 on 11865. (WBI 1/24)

Two years ago, TWR Bonaire had four QSL cards, featuring scenes of Bonaire, as drawn by its artist, Betty Ratzliff. These same four scenes, "Typical Bonaire House," "Willemsdoorn Lighthouse," "Underwater Reef Scene," and "Divi-Divi Tree and Cactus," plus two more, "Slave Huts," and "Flamingos" are available on note-cards. When you write, ask for "Bonaire Beauty Cards." Mention that Chuck Roswell has offered them on "Bonaire Wavelengths." Other items available are TWR program skeds, and a QSL card for accurate reports covering at least 15 min. of programming, outlined. (Chuck Roswell, Bonaire Wavelength 2/15)

**NEW ZEALAND** - *Radio New Zealand International* conducted tests on new 9645 kHz from 1700-1900 on 2/8 & 15 UTC. Reports should be addressed to: Frequency Manager, RNZI, Box 2092, Wellington. (Tony King on RNZI 2/2) Previous tests of 11735 kHz produced very good results not only from the Pacific but also from Europe, so it will be used in the winter (after the first Sunday in May), replacing 15120 kHz 1800-2100.

**NORTHERN MARIANAS** - *KHBI*, Saipan, changed its fqy for Australia 1/6. 0800-1000 on 13615 kHz. 17555 kHz happens to yield a better signal in New Zealand. (AC on RNZI 1/19)

*KFBS*, Saipan, heard with EE at 1930-2000 on 9460 kHz. (AC on RNZI 2/16) [This is new, not listed in WRTH 91 or 92.--mf]

**OMAN** - *Radio Oman* heard from 0642-0736 11/8 in AA on new 17760 //21535. (Valery Ostroverkh, Kazakhstan, via Bruce MacGibbon on RJDXC 1/19)

**PALAU** - The High Adventure Ministries station which had been licensed to set up on Guam as KHBN has moved to the Micronesian island of Palau, and expects to be on the air in April. No frequencies were mentioned. (Jay Stewart in DSWCI, January 1992, on DXPL 1/19) [The ARRL Operating Manual, 1990 ed., says the country has changed its name to Belau.--mf]

High Adventure Ministries wants reception reports on its Palau SW station sent to its Los Angeles address, P.O. Box 93937, Los Angeles, CA 90093. Program scheduling and production is done in Los Angeles, so QSLing is easier there. If you must have Palau stamps, the Palau address is: High Adventure Ministries, General Delivery, Palau, PW 96940. There is only one post office on Palau and it has run out of boxes to rent. (John Tayloe, High Adventure Ministries, via Mike Fern, CA) [Don't put "Palau, PW 96940, USA" on the letter; that's like writing the VOA at "Washington, DC 20547, Ukogbani." Palau's mission in Washington is found in the Diplomatic List, not the Congressional Directory.--mf]

**PAPUA NEW GUINEA** - R. Western, Daru, has returned on 3305 kHz after several silent months; heard at 0945 in Pidgin; suffers severe heterodyne QRM from RRI Dili on 3304 kHz; Dili ID noted at 1100. (AC on DXPL 2/15)

**PERU** - *R. Sensacion*, Huancabamba, on 6896 at 1245, good sig, ID. (RMV/QLB/DXPL 1/25)

*Radio Nor Andina*, Celendin, began broadcasting May 1, 1985. The station uses 1 kw (originally 500 watts) on 4460 kHz; and also operates on 1420 kHz. Because of an electricity shortwave 1420 is used only at night. Celendin, 2664 meters above sea level in northern Peru, has 90,000 inhabitants. Misael Alcantara Guevara, the manager of the station, is forty years old, and an accountant by profession. He also serves as the president of the Committee for Good Health for Children. In the province of Cajamarca, where Celendin is located, and where there is extreme poverty, six to eight children die each day from infectious diseases. According to Misael, financial help from outside Peru is needed to help save the lives of the children in that part of the country. *Radio Nor Andina* broadcasts on the average of 150 messages daily, around half of which are of a community service nature. The station, by broadcasting these messages, provides a very important function, as there is only one central telephone office, and only one main road, for the residents to use in communication with others. The station lacks commercial advertising ("propaganda comercial" in Misael's words -- I think his words are better than the English) because of the lack of industries. The address is Jiron Pardo 579, Celendin, Cajamarca, Peru. V/s Roberto Alcantara G. (Marlin A Field, Hillsdale, MI -- from translation of a letter from the mgr. In the letter the name of the station was spelled three ways -- Radio Nor Andina, Radio Nor-Andian, and Radio Norandina)

**POLAND** - *R. Polonia* changed its name to *Polish Radio Warsaw* [or *Polskie Radio Warszawa*, which pioneered the 22m band--mf] late in January. Major cuts were announced effective 2/1. Boleslaw Labonia is deputy director of Polish Radio in Warsaw. (RNMN 1/30)

Sked for *Polish Radio Warsaw*, from Feb 1, all to Europe: **English** 1300-1355 on 6135, 7145, 9525, 11815; 1600-1655 on 7285, 9525, 11840; 1800-1855 on 7145, 9525; 2030-2125 on 6095, 6135, 7145, 7270, 9525.

**Polish** at 1500-1555 on 7285, 9525; 1630-1725 on 6135, 9540; 1930-2025 on 6135, 7270; 2200-2255 on 6095, 7285; 2302-2355 on 6095, 6135, 7145, 7285.

**Other languages:** **Belorussian** at 0530-0555 on 6095, 7145; 1900-1925 on 6095, 7270, 7285. **Esperanto** 1430-1455 on 6095, 6135, 7145, 7285, 9525; 2130-2155 on 6095, 6135, 7145, 7285. **German** 1230-1255 on 6135, 7145, 9525, 11815; 1400-1425 on 6135, 7285; 1500-1525 on 6095, 7145, 9540; 1600-1625 on 6135, 9540; 1730-1755 on 6095, 6135, 7285, 9525; 1900-1925 on 6135, 7145. **Lithuanian** 1400-1425 on 6095, 7145, 9525; 1800-1825 on 6095, 7270. **Russian** 1530-1555 on 6095, 9540, 11840; 1700-1725 on 6095, 7285, 9525; 1830-1855 on 6095, 6135, 7270, 11815. **Ukrainian** 0500-0525 on 6095, 7145; 1800-1825 on 6135, 7285; 1930-1955 on 6095, 7285. (WBI 2/7)

*Polish Radio Warsaw*, Warsaw, now has EE for the S.Pac. 0630-0725 on 6135, 7270 & 9525 kHz; to Asia at 1600-1700 on 9525 & 11840; to Eur 2000-2055 on 7145, 7270, & 9525; and to Eur and NA? 2200-2255 on 5995, 6135 & 7270 kHz. (AC on RNZI 2/16)

**PORTUGAL** - *R. Portugal* now begins its EE transmission to the Middle East at 1630 instead of 1500, Mon-Fri on 21515 KHz. (Andy Sennitt on RNMN 2/13)

**QATAR** - *Qatar Broadcasting Service* used the following sked during February: 0245-0705 on 9535 kHz; 0705-1305 on 17890 kHz; 1305-1705 on 11725 kHz; 1705-2130 on 7160 kHz. All SW xmsns are in Arabic. Sked and freqs are different from those in WRTH 92. (Direct to DXPL 2/8)

**ROMANIA** - *R. Romania International* in EE is heard 0530-0600 on 11840, 15380, 17720, 17745, 17790 and 21665 kHz, and from 0645-0715 on 11840, 15335, 15380, 17720, 17805, and 21665 kHz. (AC on DXPL 1/18) The reduced schedule to Australia is 0645-0715 on 15335, 15380 and 17720 kHz; the 21 MHz frequencies are not usable at that time. (AC on RNZI 1/19)

**RUSSIA** - *Adventist World Radio* says it will have AWR Asia on a Russian xmtr, in use 24H, in 13, to Asia. The first xmtr will be 100 kw; later the power will be stepped up to 250 kw. (AC on RNZI 2/2)

*Polyus Radio*, St. Petersburg, is on 6045 kHz from (?0430) to (?1400). Reception in Moscow is good. (DX Club on Radio Moscow, 2/9, via WBI 2/14)

*Radio New Wave* is being heard in the Netherlands on 15560 and 15230 kHz, among other freqs. It announces in RR and EE. One anmt says "You could hear us on shortwave, 25, 31, 41, 49m, from (0700-0800 and 1700-1800) GMT on Tu/We/Fr/Su." But no 19m channel is announced. (Ehardt Goddyn, RN Frequency Bureau, and JM on RNMN 2/6) *Novaya Volna* began in January on RM's World Svc in RR. An EE pgm is part of this svc. The 0700 pgm was heard in Tokyo on 15160, 15190 and 21635 kHz. The CIS #1 network began a program with the same name in 11/91, but the EE program is not heard in the domestic service. (Yoshinori Kato and Nobuaki Takahashi on RJDXC 2/9) A SSB relay of *Novaya Volna*, or *New Wave*, is heard in Finland on 5775v USB

at 1600-0100 daily. This may be a point-to-point feeder. (EuroNews, by Risto Kotalanti, Finland, via UseNet, on RNMN 2/13)

**R. Yakutsk** has been heard in Japan recently \*0700-1500 on 5920 and 6125 kHz. Pgms in RR, usually popular music. There is sometimes a newscast at 0830. Reception is generally poor. According to information received from a Russian DX club, R. Yakutsk simply relays its commercial (sic) channels on 6125 kHz. It is not known whether the station is new (post-August 1991). However, it seems to be a service aimed at the young by Yakutsk Radio, the public (ex-Gosteleradio) station in Yakutsk. (Yoshinori Kato and Shigenori Aoki on RJDXC 2/16) [Neither freq is listed in WRTH 92; the listed HS freqs are 4395, 4800, 4825, 4920, 4940, 7140, 7200, 7265, 7345 kHz.--mf]

Many **RMWS** pgms shifted one hour earlier when Russia went to UTC +3 on 1/19. The Hausa svc remained unchanged. Most Indo services are an hour earlier, except for 1100-1200 on 17890 kHz, which may come from a relay base outside Russia or the CIS. (Yoshinori Kato and Shigenori Aoki on RJDXC 2/16).

**Radio Stantsiya Atlantika**, 7205, from 1400 ID, Murmansk area news & RR talks to 1459\*; vy strong 1/3, //9745, 15210, 15305, 15475, 15495, 15540; heard Tuesday and Friday only, from 1300 since the time change. (Ernie Behr)

**R.Ala** has replaced 11965 kHz with 11685 kHz. The apparent schedule is 0630-1400 on 11685; 0630-1500 on 7400; 1430-0600 on 6015; 1530-0600 on 5040 kHz. Russia may set its clocks forward again for summer time (UTC +4) on 3/29. (Shigenori Aoki on RJDXC 1/26)

**RMWS** in EE is being heard on unannounced 4940 kHz at \*0150-0240\*. This seems to be the same xmtr that relayed R. Afghanistan's foreign service last year. The sunrise-sunset tables in the ARRL Operating Manual indicate that this xmtr may be in Kazakhstan or Kyrgyzstan. Signals are best about half an hour before apparent local sunrise. (Mike Fern, CA)

**Deutsche Welle's** Siberian relay has moved to 12055 kHz for EE 0200-0250. After 0250 the IS remains on the air and Pashto begins at 0300. (AC on RNZI 1/19)

The 'Back to the Bible' religious b/c organization, which produces a Sinhala broadcast in Sri Lanka for broadcast via FEBA in the Seychelles, has told VG that they would like to have a morning broadcast for Sri Lanka (0030 UTC). They have contacted All-Russia Radio or Ostankino, which is very excited. The fee asked by the former Soviet authorities is just a fraction of what FEBA is getting. (VG on RNMN 1/30)

**Adventist World Radio** now b/c 24H on a 100 kw xmtr (later to be 250 kw) in 13 Asian langs. Tapes are made at AWR studios south of Moscow. [No freqs given] (AC on RNMN 2/6)

**Russia's Radio 2** is heard in Holland with children's pgms on 15150 kHz 1400-1630. R.Nederland uses same fqy to Asia at 1430, so there may be QRM. (JM on RNMN 2/6)

**SEYCHELLES** - **FEBA** changed freqs for its daily EE best at 1500-1555 UTC to 11685 kHz. The Tu-Sa EE pgm at 1500-1600, is now on 9810 and 15330 kHz. (AC on DXPL 2/15)

**SOMALIA** - **Radio Mogadishu**, the voice of the Somali Republic, observed on 962 kHz, from 0300-0400 on 1/18; had been last noted on 11/9/91. 962 kHz also was heard between 1508-1830 gmt 1/19. The sw channel, which varies around 7198 kHz, has so far not been traced. (WBI 1/24)

**SPAIN** - **Spanish National Radio** announced 2/4 that **Radio Exterior de Espana** is going to have a second relay station for broadcasts to Eastern Europe. The director general of Spanish Radio and TV was to sign an agreement in February with Romanian Radio and TV to maintain and use xmtrs once used by the clandestine **Radio Espana Independiente** before 1977. The voice of the Spanish Communist Party [in exile during Franco's rule] used at least four xmtrs in Romania. Transmitters in the USSR were used from 1941-47; since WW2 xmtrs in Hungary and Bulgaria had also been used. BBCM does not know if the Romanian xmtrs were also used by Romania's own broadcast svcs. The clandestine xmtrs are quite old and operated outside the [1959 and later] ITU b/c bands, such as 7690, 10110, 12140, 14585 and 15505 kHz. (JM and RM on RNMN 2/6)

**SRI LANKA** - **Sri Lanka Broadcasting Corporation** will commence broadcasts to North America 3/3 at 2330-2400 on 15425 kHz using a 300 kw xmtr at the NHK relay station at Ekala. A second transmission, at 0345-0515, on 15425 khz (35 kw) and 9720 kHz (100 kw), both beamed at 35 degrees to WCNA. (Victor Goonetilleke, Colombo, on RNMN 2/28, via df) Victor noted at the first of the item that they "did inaugurate the North American Service on the 26th, and that was during their

broadcast to Southeast Asia between 1030 and 1130 UTC." It wasn't clear to me what was meant by that. Language for the 2330 and 0445 transmissions was not stated. [df]

**Trans World Radio**, Sri Lanka, will be back on SW again this year by way of the R. Japan relay at Ekala at 2330-0130; fqys not given. An existing 12.5 kw xmrtr at Puttalam may be used for a while. At present TWR uses time on FEBA, Seychelles, for pgms in Telugu and Tamil from 0000-0100 on 9765 kHz. (ADXC & UADX, quoted in DSWCI, on DXPL 1/19)

A very helpful engineer, Mr. Lal Herat, is back at **SLBC** as dep. dir-genl of broadcasting. He's a friend of DXers & welcomes all reception reports to SLBC. If you have had problems getting a QSL, you could send a report to: Mr. Lal Herat, Deputy Director General of Broadcasting, SLBC, P.O. Box 974, Colombo. He is especially interested in SLBC External Service reception. He also informed VG that a special test xmsn will take place in early Feb from 0030-0400 on 11825 with the All-Asia Hindi service running parallel to [Bonaire lost satellite signal]. (VG on RNMN 1/30)

**SUDAN** - (*Clandestine*) - **Radio SPLA**, unheard since 12/14, heard again on 2/11 at 1300. Announced transmissions at 0400-0500 & 1300-1400. Heard on 9550 kHz. (WBI 2/14)

**SWITZERLAND** - Major changes in the *Swiss Radio International* external services are scheduled to take place 3/29, according to Walter Funkhauser, its public relations chief. They will have two separate program streams, one for the 470K Swiss abroad; the other for foreigners interested in Swiss developments. Language priority will be EE, FF, SS & AA. PP & Esperanto will be dropped from the sw sked. PP to Brazil will be carried on Brazilian stations.

SRI continues to hire time on Africa No. 1 in Gabon, and from 1993 or 1994 SRI will share a transmitter in French Guiana with RFI.

SRI continues to look for a new site in Switzerland, but each time a new and larger site has been selected, environmental objections have been raised by local groups. As from this year, Swiss living abroad can vote, providing a new reason for SRI to want to reach Swiss nationals. (JM & Walter Funkhauser on RNMN 1/30)

**TAJIKISTAN** - *Tajik Radio*, Dushanbe; First Program is carried on shortwave at 0056-0115 on 4635 kHz; at 0115-1805 on 4635 and 9785 kHz; at 1805-2000 on 4635 & 17605 kHz. The Second Program is transmitted at 0100-1800 on 7245 kHz. (WBI 2/7)

**TAIWAN** - The *Broadcasting Corp of China* (BCC) is on new 11845 for its Chinese-language service; first heard on 1/13. The BCC's news and popular networks are scheduled as follows: News net, 2100-1700 on 9610, 11725 and 11845; 2100-2400 on 9765; 2200-0100 on 15270; 0100-0400 on 7295; 0900-1700 on 9765 kHz. Popular net, 2100-1700 on 11885 and 15125; 0100-0900 on 9282 kHz. (Takashi Kishitani, Asian B/c Institute, on RJDXC 1/26)

**TANZANIA** - The External Service of *R. Tanzania*, Dar-es-Salaam, is on SW only on 9685 kHz from 1530-1915. (Martin van Delft, Zanzibar, on DXPL 1/25)

**THAILAND** - The *BBC* will go ahead with plans for a new relay base in Thailand despite the Dutch decision not to join the project. Thailand will replace Hong Kong, which the BBC expects to lose when the lease from China expires in 1997. (AC on RNZI 1/19)

**UKRAINE** - *R. Kiev* anned the following EE sked at 0158 1/20 UTC: 2200-2300 to Europe on new 6020, and 9820 kHz. 0100-0200 to North America on 7400, 9800, 15180, 17605 and 17690 kHz. The latter program is announced as repeated for Europe at 0215 on 936 MW and 4825 kHz. (Mike Fern-CA) [The CIA now refers to the former Soviet Union (including the Baltic Republics) as Central Eurasia; the FBIS Daily Report for this area assumed this title on 1/2/92.--mf]

The shortwave relay site at Lvov has closed down because of costs of electricity, which has increased 27 times since 1/1. (WBI 1/31)

*R. Kiev* heard at 0330 on 4940 kHz in Ukrainian; later on 4825 at 0415 in German with a DX program. (Josef Ziglai, Hungary, on DXPL 1/25)

*Radio Kiev* noted on many new frequencies since 1/31, probably due to the takeover of most RM xmrtrs on Ukrainian soil. I monitored the following partial sked from 2/1 - 2/5: 1400-1530 Ukrainian on 9780, 9875, 11705; 2100-2400 Ukrainian on 7400; 2200-2300 Engl, 2300-2400 Ukrainian, 0000-0100 German, all on 7380. 2300-2400 Ukrainian, 0100-0200 Engl on 7240, 7400, 9860, 9870; 0200-0330 Ukrainian on 7240, 9860, 9870. 0400-0500 Ukrainian on 7240, 9860; 0400-0600 Ukrainian on 7400; 0400-0700 Ukrainian on 7230; and 0400-0545 Ukrainian on 7380. (Ernie Behr)

Since 2/1 monitoring research has revealed that an increasing number of shortwave channels, some of which had previously carried RM Ext Svcs, are now carrying dom. & ext. bcsts from Ukrainian Radio in Kiev. Fqy usage has varied, but a pattern is beginning to emerge with *Radio Kiev*

ext. svc using more than double the number of freqs it used previously. Anmts on R.Kiev do not as yet mention the new freq. Also, Ukrainian Radio's domestic second program "Promin" is now available between 0200 and 2300 gmt at times on up to 20 shortwave frequencies. Previously it had only two at its disposal.

For several days Ukrainian Radio's First Program was heard on 15595 kHz, but since 2/8 "Promin" has been observed. The "Promin"'s long established 4940 kHz fqy now has Mayak from Moscow, as well as Ukrainian Radio classical music and cultural programs -- possibly the Third Program.

"Promin" is currently heard as follows: 0200 6030, 6140; 0400 5980, 6030, 6140, 7400; 0500 5980, 6030, 6140, 6195, 7400; 0600 5980, 6030, 6195, 7400, 9620; 0700 5980, 6030, 6140, 6195, 9620, 11780, 11840, 15495; 0730 5980 6030 6140 6195 9560 9620 9810 11780 11840 15495; 0800 5980 6030 6140 6195 9470 9560 9620 9640 11780 11840 15495 15525 15595 17745 17810 21460; 0830 6030 6140 6195 9470 9560 9620 9640 11780 11840 15495 15525 15595 17745 17810 21460; 0900 6020 6140 6195 9560 9620 9640 11705 11780 11840 15495 15525 15595 17745 17790 17810 21460 21800; 1000 6030 6140 6195 9560 9620 9640 11705 11780 11840 15495 15525 15595 17780 17790 17810 21460 21800; 1030 6020 6030 6140 6195 9560 9620 9640 11705 11780 11840 15495 15525 15595 17645 17745 17780 17790 17810 21460 21800; 1400 6020 6195 6140 9620 11780 15495 17780 17810 21460 21800; 1500 6020 6030 6140 6195 9470 9620 11780 17780 17810; 1530 6030 6050 6195 9470 9620 9640 9810 11705 11780 11840 15525 15595 17810; 1600 6050 9470 9620 9640 9810 11705 11780 11870 13795 15385 15525 17745; 1700 5960 6010 6050 6090 6140 9470 9640 9810 11780 15385 17745; 1730 5960 6010 7400 9470 9640 9785 9810 13795 15385 17745; 1800 7400 13795 15385; 2100 7400; 2200 7400 11810 13795; 2300 on mw only until 0200. (WBI 2/14)

Radio Kiev sked: English 0100-0200 on 4825, 7240, 7400, 9860, 10344-usb, 17605, 17690; 2200-2300 on 5960, 6020, 7380, 9785.

Ukrainian: 0200-0230 on 4825, 6080, 7240, 9860; 0230-0330 4825, 6080, 7240, 7400, 9860, 10344-usb, 17605, 17690; 0400-0500 4825, 7240, 7380, 7400, 9560, 9785, 9810, 9860, 10344-usb, 17605, 17690; 0500-0730 4825, 7230, 7380(to 0700), 9560, 9640, 9785, 9810, 11840; 1400-1530 on 6050, 9640, 11705, 11840, 15525, 15595, 17745; 1900-1930 5960, 6010, 6020, 9470, 9640, 9785; 2000-2100 on 5960, 6010, 6020, 7340, 9470, 9640, 9785; 2300-2400 on 5960, 6020, 7240, 7380, 7400, 9785, 9860, 9870, 10344-usb, 17605, 17690.

Moldavian 1800-1830 on 13795; 2030-2100 on 13795; and 2200-2230 on 6010 or 13795.

German 0000-0100 on 4825, 5960, 7380; 1800-1900 on 5960, 6010, 6020, 6140, 9470, 9640, 9785, 11705; 2100-2200 on 5960, 6010, 6020, 9640, 9785 kHz. (WBI 2/14)

Transmissions on 7400 kHz, which carries various CIS and ex-Soviet programs, resumed the week of 2/3. BBCM noted R. Kiev, R. Minsk and R. Vilnius. It does not know whether the 7400 kHz xmt is in Ukraine, but that seems likely. R. Kiev has added frequencies and some new broadcasts. It is on 9860, 5960, 4825 and some others throughout the night with External Service broadcasts. The only EE broadcast is from 0100-0200, currently heard by BBCM on 936, 4825, 7400, and 17690 kHz, and 10344 kHz USB. (RM and JM on RNMN 2/6) [WRTH 92 says 17690 is at Komsomolsk-na-Amure, Siberia; 17605, which carries many of the same programs is at Petropavlovsk-Kamchatskii. Last year's WRTH listed seven Radio Moscow relay bases in Ukraine alone, which gives that country lots of bargaining cards.--mf]

UNITED ARAB EMIRATES - R. Abu Dhabi heard in NZ at \*2200-2400\* on 11965 kHz with EE anmt, then Holy Koran; fqys ancd as 9600, 11965 and 13605 kHz. (AC on DXPL 1/19)

UNITED KINGDOM - The BBC's transmitter site at Borough Hill, Daventry, will close down March 28/29 after 67 years of scheduled broadcasting. BBC World Service began as the Empire Service in 1931. Daventry began on MW seven years before. An amateur radio operation using actual BBC aerials for a wake on April 4-5 & 11-12 April, has received BBC approval. Exact frequencies in the 80, 40, 30, 20 and 15m ham bands have not been announced. The call sign is GB67XX. 'GB' is the British special-events prefix, 'XX' commemorates the original MW station whose call was 5XX. Since the site is of archeological interest, a group called English Heritage will take it over; only one aerial mast will remain. (JM and Giles Herbert, UK, on RNMN 1/30)

URUGUAY - Radio Monte Carlo heard on 6139.89 kHz 2/2 at 1450-1500, ID 1500 as "a traves de CX20 R. Monte Carlo y CX12 R.Oriental, el Departamento de Prensa de la Cooperativa de Radioemisoras del interior conecta con su gran circuito nacional ...". Also, "Aqui la Super Radio." Also heard on 11734.98 2/2 at 1535-1541, ID 1541. // 930 kHz. La Voz del Artigas, Artigas, 6073.32 kHz, reactivated, heard 2/3 at 2053-0050. SODRE, Montevideo, 9620.25 kHz, heard 2/2 at 1550-1734. El Espectador, Montevideo, 11835.72 kHz, reactivated, heard 1/19 at 0132-0150

w/sports. Also 2/2 at 1420+ w/music & ID as "CX14 El Espectador". (Gabriel Ivan Barrera, in *Onda Corta*, via Fine Tuning)

**USA - KGEI**, San Francisco is broadcasting to Central Eurasia in Russian from 0200-0500 on 9890 kHz; heard in NZ after 0430. (AC on RNZI 2/2)

*R. Miami Int'l* rec'd a construction permit from the FCC for a 50 kw SW station near Miami on 12/16/91. Work must be completed by 5/18/93, but the station expects to be ready long before then. RMI extends its thanks to all SWLs who sent their comments and support for the application to the FCC and to RMI. RMI's Honduras sister station, R. Copan Internacional, has received its 1-kw. xmtr. Test bcsts on 9950 kHz were to start soon after 2/1/92. (DXPL 1/29)

*WWCR* has rescheduled Glenn Hauser's *World of Radio* to 2130 Fri UTC on 17525 kHz, for Europe; and added 0630 Sat UTC on 7435 kHz. (GH and JM on RNMN 1/30)

*Croatian Radio* from Zagreb, relayed on WHRI, noted 0513-0600 on 7315. Announcer said station had technical difficulties and that the schedule would change. Program continued in Croatian with martial music, a song titled "my Heart is in Croatia"; then news & commentary. Differs from sked given in January LN. (Ed Gibbs, Virginia Beach, VA)

**UZBEKISTAN - R. Tashkent** Foreign Service, 5955 kHz, heard between 0130-0300 2/7 and 2/8. Good signals, but splatter from WYFR and power line noise. ID at 0200, "Da Tashkent li", probably start of Pushto program. WRTH 92 says EE 0100-0130 (before sunset in CA), Dari on 5945 0130-0200, Pushto 0200-0230, Uzbek 0230-0300. (Mike Fern--CA)

**VIETNAM** - A new station in Yen Bai province on 6463 kHz is being heard in Japan at 1000-1030 and 1130-1215. Sked is Viet 1000-1030 and 1200-1215, vernaculars 1130-1200. Hoang Lien Son province was split in two in August; one province is named Yen Bai and the other Lao Cai. *R. Yen Bai*'s signal is regular but not strong in Japan. (Isao Ugusa on RJDXC 2/2)

**YEMEN** - A program called *The Voice of Palestine* was heard from 1603-1630 on 5950 kHz. Reception was good. The program was in Arabic and came from San'a. *The Voice of Palestine* is produced by the PLO and broadcast from Yemen and Algeria using local (government) broadcast facilities. The VOP says it can also be heard from Al-Hiswah, Yemen, on 5970 and 7190 kHz, but these freqs have not been confirmed in Japan. (Nobuaki Takahashi on RJDSC 1/26). 5950 kHz has been subject to heavy interference from a R. Moscow xmtr since 1/19 when the Russian Republic set its clocks ahead to UTC+3. (Yuki Sakagami on RJDXC 1/26)

**CLANDESTINE** - UnID clandestine in Farsi from 1742-1750 12/14 on new 5010 kHz; anti-Iranian; man giving slogans, woman announcer. Moved to 5000 kHz in mid-transmission. (Valery Ostroverkh, Kazakhstan, via Bruce MacGibbon on RJDXC 1/19)

A station broadcasting in Arabic & calling itself the *Voice of the Kurdistan Revolution Radio* (Arabic: Idha'at Sawt Kurdistan al-Thawrah) was observed on 6716 on 2/3 with a broadcast already in progress at 1530. The station described itself as the voice of the People's Democratic Party of Kurdistan (PDPK). It signed off at 1600. On 2/4 it was heard in Kurdish at 1400-1500, Arabic 1500-1600. On 2/5 it was heard between 0550 & 0622 S/on and s/off times could [not] be establish due to poor reception conditions. (WBI 2/7)

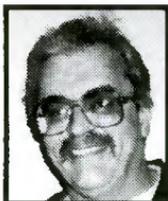
*The Voice of Freedom of Kashmir*, an anti-Indian clandestine station, uses the sked: 0230-0330, 1100-1200 and 1430-1530 on 5000 and 6300 kHz; 1630-1730 on new 4085, 5000 and 6300 kHz. 4085 kHz was first used on 1/19 and replaces 5900 kHz. Pgms in Urdu and Kashmiri. The ID in Urdu is "Sada 'e hurriyat 'e Kashmir" (as heard). (Mohamed Tahir Latif Gari, Pakistan, on RJDXC 2/9)

*The Voice of Taiwan* on 9900 kHz has not been heard in Japan since 12/5/91. The station claims to be the voice of native Taiwanese and is opposed to the ruling Kuomintang (mainland China) party. The station began broadcasting 10/16, and may be located in Taipei. One of its announcers has taken the name of Wu Lo-Tien, a famous, living Taiwanese story-teller and actor. The real Wu is behind an anti-Kuomintang cable-TV outlet, which was silenced once. *The Voice of Taiwan* does not follow a regular schedule. It was on the air from 10/16-20, from 10/30 to 11/1, 11/7-8, and 11/30 - 12/5. A DXer in Taiwan says the station is also heard on 91.1 MHz FM there. Its SW sked varies, between 1200-1600, on 9910 or 9990 kHz. The mailing address is: 26 Lane 177, (Chao-nan?) West Road, Taipei. The fax number is Taiwan (886) (2)-522-2080. (Tetsuya Kondo, Asian Broadcasting Institute, on RJDXC 2/9)

Please send material for this section to the masthead address, or by EMail to: CompuServe: 76702,771; Internet or MCI Mail -use the gateway to CompuServe; Prodigy - JDBM33A. Any opinions I may express here are mine, not those of my employer. Back next month. Dan

# QSL Reports

**Sam Barlo**  
47 Prospect Place  
Bristol, CT 06010



**AHU DHABI: Voice of the UAE** 17855 f/d folder cd. w/ schedule in 3 mo. (Durden-GA). 7215 f/d cd. w/ schedule in 26 ds. for 2 IRCs. (Friend-NY). 13605 p/d folder cd. in 23 ds. for 1 IRC. (Martin-MI). in 1 mo. for \$1.00. (Wilkins-CO).

**ADMIRALTY ISLANDS: Radio Manus** 3315 f/d ltr. in 1 mo. v/s John P. Mandrakamu. (Smith). f/d ltr. in 4 wks. w/ information on the national radio network for ms. v/s Eiliun Serenan. (Cox-OR).

**ALASKA: KNLS** 7355 cd. in 2 mo. w/ pennant and ltr. v/s Beverly Jones. (Smith).

**ANTIGUA: Deutsche Welle** 6040 f/d "Reunification" cd. w/ "Tune In" magazine in 19 ds. for 1 IRC. (Martin-MI).

**ARMENIA: Radio Yerevan**  
12060 f/d cd. w/ ltr., schedule and other info. materials in 4 mo. v/s R. Abalian Redactor Principal. (Flosi-BRASIL). 17690 f/d cd. in 52 ds. for \$1.00. (Galgano-NY).

**ASIATIC RUSSIA: Radio Vilnius** 17690 via **Petropavlovsk-Kamchatskiy** f/d "Land of Amber" cd. in 2½ mo. (Galgano-NY). 9755 and 9895 f/d cd. w/ personal ltr. in 50 ds. (Hosmer-MI). 7380 via **Irkutsk** f/d cd. in 50 ds. w/ key chain. (Hosmer). 9705 via **Vladivostok** f/d cd. in 50 ds. (Hosmer-MI). 9795 via **Komsomolsk-on-Amur** f/d cd. w/ ltr. in 50 ds. (Hosmer-MI).

**AUSTRALIA: Radio Australia** 9580 via **Shepparton** f/d cd. in 43 ds. Also rcvd. sticker, schedule and a calendar. (Devlin-NJ). 7240 via **Brandon** f/d form ltr. in 34 ds. for 1 IRC. (Hosmer-MI). 11930 f/d cd. in 25 ds. (Rigas-IL). **VNG** 16000 p/d cd. in 5 mo., 2 wks. after a f/up rpt. for 3 IRCs. v/s Betty Allan, VNG User's Consortium. (Hankinson-KS). f/d folder cd. w/ info. sheets in 28 ds. for 1 IRC. (Martin-MI).

**AUSTRIA: Radio Austria International** 13730 f/d ltr. & schedule in 50 ds. (Christensen-ALB).

**BANGLADESH: Radio Bangladesh** 15200 n/d "Sail Boat" cd. in 2 mo. for \$1.00. v/s Masudul Hasan, Deputy Director of External Services. (Prisco-PA).

**BOLIVIA: Radio Eco** 4410 f/d Map-Microphone" cd. in 158 ds. for a SP rpt. (MacHarg-ECU).

**BONAIRE: Trans World Radio** 11930 special cd. was rcvd. for their SP DX program, "Monitor DX" produced by Daniel Camporini. Send rpts to him at Casilla No. 33, 1653 Villa Ballester, Buenos Aires, Argentina. Sked: Mon. UTC 0115-0130 on 11930. (Berg-MA). f/d "Protestant Church" cd. in 1 mo. (Millard-TX). 11815 same cd. w/ station pennant and schedule in 4 wks. v/s Sally Rork. (Schwartz).

## QSL

RADIO STELLA INTERNATIONAL

Date: 12-5-91

Time: 0056 - 0217 G.M.T.

Freq: 11416 KHz

Watts: 120

Correct reception report from

Andrew Wallace

Lowell

U.S.A.

Verified by

*Joel Wilson*

Joel Wilson

Station Manager



Scottish Free Radio on shortwave.



**Süddeutscher Rundfunk:**  
Regionalempfang auf UKW und MW 711, 1413 und 1485 kHz. Empfang mit großer Reichweite auf MW 576 kHz, 300 kW Leistung und von 8.00 bis 0.05 Uhr Lokalzeit auf KW 6030 kHz im 49 m-Band, 20 kW

Süddeutscher Rundfunk Postfach 10 80 40 7600 Stuttgart 10

Herrn

Andrew G. Wallace

65 West Forest Street Apt. 2

Lowell, MA 01851-4827

U.S.A.

## SDR-QSL-Karte

Wir bestätigen den Empfang eines Senders des Süddeutschen Rundfunks

Sie hören am 05.3.89

Empfangszeit 5.15 Uhr UTC

den Sender Mühlecker

Senderfrequenz 6030 kHz/DRZ

mit dem Radioprogramm SDR 1 SDR 2 SDR 3 SDR 4

Sonderprogramm

Wiederhin guten Empfang wünscht Ihr

Süddeutscher Rundfunk

Technische Direktion

*[Signature]*

pennant and schedule in 4 wks. v/s Sally Rork. (Schwartz).

**BOTSWANA: Voice of Amer-**

\* **ica** rcvd. very nice blue and white map of Africa cd. w/ statement "50 Years of Broadcasting to the World, 1942-1992". Message was handwritten on the back...To improve VOA reception in Africa, four 100 kw.

**SPECIAL REPORT:** The following was sent to us from ace DXer Gordon Darling in Papua New Guinea:



Radio West New Britain Valuka Lowa, Station Manager, Radio Simbu Rodney Teine, Station Manager and Gabriel Paiao, Technician. Radio Eastern Highlands Tonko Nonao, Station Manager; Kiri Nige, Technical Officer. Radio New Ireland Otto Malatana, Station Manager; Robert Taula, Technician. Radio Western Highlands Paul Ray, Station Manager; Esau Okole, Technician. Radio Northern Misael Pendaia, Station Manager; Manly Malam, Technician. Radio West Sepik Gabriel Deckwalen, Station Manager; Ignas Yanam, Technician. Radio Morobe Aloysius Nase, Station Manager; Joe Ivura, Technician. Radio Gulf Mailau Daniel, Station Manager; Fae Kapena, Technician. Radio Madang Simon Tiori, Station Manager; Lloyd Guvil, Technician. Radio Southern Highlands Andrew Meles, Station Manager; Ron Hilori, Technician. Radio Central Steven Gamini, Station Manager; Amos Langit, Technician. Radio Western Robin Wainetti, Station Manager; Samson Tobel, technician. Radio North Solomons Aloysius Rumina, Station Manager; John Sabur, Technician. Radio East Sepik Luke Umbo, Station Manager; Jimmy Aris, Technician. Radio Milne Bay Simon Muraga, Station Manager; Philip Maik, Technician. Radio East New Britain Esekia Mael, Station Manager; Joe Wafewa, Technical Officer; Robin Noah, Technician. Radio Manus Eluan Sereman, Station Manager; Vit-us Bongai, Technician. Radio Enga John Kuk, Station Manager; Felix Tumun, Technical Officer.....Thanks again, Gordon.....Sam.

via Darling

Continental shortwave transmitters are entering service at Moepeng Hill.(Berg-MA).  
BRASIL: Radio Cancao Nova 9675 p/d "E Hora de Evangelizar" cd. in 14 ds. for a PT rpt. (Yamada-JPN). same w/ p/d ltr. and station brochure in 30 ds. for a PT rpt. and \$1.00.(Durden-GA). Deutsche Welle 9545 via Brasilia f/d cd. w/ site indicated in 30 ds.(Rigas-IL).

BULGARIA: Radio Sofia 9700 f/d cd. w/ station info. on qualifications for the "Bronze Diploma" in 35 ds. for 1 IRC. v/s Iva Delcheva.(Galgano-NY).

CANADA: Radio Canada International 9755 via Sackville f/d "35th Anniversary" cd. via CIDX in 15 ds. Sticker and pennant were rcvd.(Millard-TX). 9760 f/d "Telecom 83" cd. w/ schedule and sticker in 4 wks.(Schwartz-NY). CKZU 6160 f/d cd. in 18 ds. v/s Dave Newbury.(Mayberry-TX). CIQX 6130 f/d ltr. in 73 ds. v/s Kurt J. Arsenalout \* (Lamb-NY). f/d ltr. in 9 mo. for \$1.00.(Wallace-CT). CIQX 6005 Mount Royal Broadcasting, Inc. Same address as CFCF. Station is still utilizing the old CFCF/CFQR letterheads. SW call to CIQX changed on 9/9/91...kind of a long time to still use the old letterhead.(Berg-MA).

CANADA (Pirate): Radio Beaver 7415 f/d ltr. w/ picture of the Cleaver Family and a Wally Cleaver trading cd. in 24 ds. for \$1.00. (Martin-MI).

CHINA, PEOPLES REP. OF: Jianqxi PBS 5020 Nanchang station verified direct on the 5th f/up rpt. Rcvd. back my CH prepared cd., postcard w/ New Years greetings, schedule red and gold pin and a 2 page friendly typed ltr. v/s Tang Ji Sheng. He is a 28 yr. old grad student who likes music, literature and stamps.(Berg-MA). Radio Beijing 9690 and 11715 f/d "Silk Figurine" cd. w/ schedule and a sticker in 5 wks.(Schwartz) \* 9690 and 11715 "Silk Figurine" cd. w/ paper cuts in 21 ds.(Levison). 11755 f/d cd. w/ schedule and papercuts and the "Messenger" in 15 ds. for 1 IRC.(Martin-MI). Radio Canada International 6150 via Xian f/d 1981 cd. Montreal in 11 ds. for 1 IRC which was returned. Also rcvd. schedule, sticker and ANARC/CIDX information.(Hosmer-MI).

CLANDESTINE: Voice of the Broad

\* Masses of Eritrea 7490 p/d ltr. in 72 ds. which states: "We have been independent since May 26, 1991"...New country??? (Hope so). v/s Mehreteab Tesfagiorgis. (D'Angelo-PA)...Illustration will be in next months bulletin...Sam. Flag of Freedom Radio 15100 f/d ltr. w/ station brochures and literature in 5 wks. v/s Dr. M. Ganji, Secretary General.(Schwartz).

Very nice QSLs guys...more on the next page.....Sam.

**ALOTAU'S NO 1 KAI KAI HAUS**



## Screaming Tribesman Cafe

**Masurina Business Centre**

via Gordon Darling who claims that this establishment is named after the station manager of Radio Milne Bay, Alotau, who had just received his millionth report from a shortwave listener!

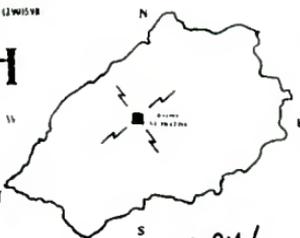
THE CASTLE, JAMES TOWN, ST. HELENA, SOUTH ATLANTIC OCEAN  
Telephone 4447 Telex 4211 GORT BR. FAZ LHWISW



ZHH

via Swedberg  
and others

Radio  
ST. HELENA



turns me on!

**CLANDESTINE: La Voix du Sah-**  
\* **ara Libre** 15215 via **RIVA**  
f/d cd. w/ personal ltr.  
in 28 ds. for 2 IRCs. Addr:  
Front Polisario, Sahara  
Libre, B.P. 10, El Moura-  
dia, Alger. My 4000th non-  
amateur QSL.(Darling-PNG).  
f/d certificate w/ paper  
flag and a 2 page ltr. in  
SP in 26 ds. for a SP rpt.  
Almost forgot...this was  
for **La Voz del Sahara Libre**  
(Wilkins-CO).

**COLOMBIA: Ondas del Ortezua**  
4976 n/d ltr. w/ decals in  
50 ds. for a SP rpt. and 1

IRC. v/s Dani Yasmin Anturi Duran, Secretaria.(Durdén-GA).

**COSTA RICA: Radio Reloj** 4832 p/d cd. in 14 ds. for a SP rpt. and 3 IRCs. v/s Francisco Barabona G. (Hankison-KS). **TIPC** 5055 f/d postcard w/ ltr. in 6 wks. for 1 IRC. v/s

Juan Ochoa F., Administrator.(Lamb-  
NY). **Radio For Peace International**  
15030 special QSL cd. rcvd. for an  
"RFPI-Europe" GM segment of the  
special 4th anniversary program on  
9/16/91. Card is folding style,  
limited edition, #38 of 100, f/d on  
back of cd., RFPI history and a  
great color photo of the stations  
antenna. Sticker was rcvd. All in  
9 wks.(Berg-MA). 7375 f/d cd. w/  
schedule and sticker in 32 ds. for  
1 IRC and \$1.00.(Friend-NY). **Adven-  
tist World Radio/Radio Lira Inter-  
national** 9725 cd. w/ provincial  
capitals and full verie statement in 6 wks. v/s David L. Gregory, General Manager.  
Station info. and stickers were received. (Berg-MA).



**BFBS**  
FORCES RADIO

**BFBS LONDON**  
Bridge House  
North Wharf Road  
London W2 1LA  
Tel: 071 724 1234  
Fax: 071 706 1582

The Radio Division  
of  
**9999**

**CUBA: Radio Habana Cuba** 5965 f/d ltr. in 240 ds. (Rigas-IL). 11820 f/d "Lenin Park"  
cd. w/ station questionnaire in 6 wks.(Cox-OR). **Radio Moscow** 6045 via **Habana** f/d cd.  
w/ personal ltr. in 50 ds.(Hosmer-MI).

GUYANA BROADCASTING CORPORATION  
BROADCASTING HOUSE  
44 HIGH STREET, WEN-EN-MUST,  
GEORGETOWN, GUYANA  
SOUTH AMERICA.  
TEL: # 62691-4/ 53732

**CYPRUS: Cyprus Broadcasting Corporation** 11795  
f/d "Broadcasting House" cd. in 37 ds.(Yamada

**CYPRUS (Turkish Occupied): Bayrak Radio** 6150 f/d  
\* cd. for a reception while I was in Greece in  
35 ds. v/s A.Z. Dincer, Technical Director.  
(Rigas-IL)....Not reported too often...Sam.

**CZECHOSLOVAKIA: Radio Praha Inter-  
national** 7345 f/d "Tyl Theatre"  
cd. w/ schedule and DX Club in-  
fo. in 1 mo. for a f/up rpt. &  
1 IRC.(Galgano-NY). f/d "Kari-  
stejn Castle" cd. w/ schedule  
in 2 mo.(Cox-OR). 5930 f/d cd.  
in 43 ds.(Levison-PA). f/d cd.  
w/ schedule and sticker in 5 wk  
(Schwartz). 5930 via **Rimavska  
Sobota** and 7345 via **Litomysl** f/  
cd. in 27 ds. for 1 IRC. Also  
rcvd. Czech FDC's.(Hosmer-MI).  
11680 via **Velke Kostolany** f/d  
cd. in 90 ds.(Rigas-IL).

**DUBAI: UAE Radio** 13675 f/d cd. w/  
schedule and station pennant in  
22 ds.(Friend-NY). 21605 f/d  
folder cd. w/ schedule in 5 wks  
(Schwartz).

19.91-10-29

via Kris Field

Dear Listener,

Thank you for your Reception Report, dated 20. Feb. 1991.

We are pleased to hear from you, and appreciate the fact that you have taken time off to let us know that you are receiving us.

Your report was checked against our logs and found to be Correct/

By this letter your report is Verified

It is our sincere hope that you keep on writing to let us know how well you receive us.

Your suggestions, advice and any criticism would be welcome, since this would assist us to improve our standards.

Attached, please find a partial programme outline in Guyana Standard Time and Greenwich Meridian time.

This programming can be heard on the Voice of Guyana, 560 KHZ, on the AM Band and 5.950 MHz (Shortwave) on the 49 Metre Band.

With Regards,

Yours sincerely,

S. Goodann  
Chief Engineer,  
GUYANA BROADCASTING CORPORATION.

Republica Arabe Sahara Democrática

FRENTE



POLISARIO

R.A.S.D.

كل عام وأنتم بخير

Bonne Nouvelle Année

Happy New Year

Feliz Año Nuevo

Glückliches Neues Jahr

Gelukkig Nieuwjaar

VIA Gordon Darling

**Ecuador:** Radio Centro 3290 f/d ltr. w/ decal in 62 ds. for a SP rpt. and 1 IRC. v/s Luis A. Gamboa T. (Name?) HCJB 9745 f/d "Hardware" cd. w/ schedule and a 60th anniversary station pennant in 45 ds. for 1 IRC. (Martin-MI). 6205 f/d cd. in 5 hours! from the GM language service. v/s R. Klaue, Director. (MacHarg). 21455 (SSB) f/d cd. in 3 wks. (Walker-MI). 15155 f/d cd. in 33 ds. w/ schedule and calendar. (Devlin-NJ).

**Egypt:** Radio Cairo 9900 f/d cd. w/ schedule in 59 ds.

**EQUATORIAL GUINEA:** Radio Africa 7203 (Martin-MI). f/d "Logo" cd. via USA address in 24 ds. (Millard-TX). 7203.3 f/d cd. in 2 mo. Addr: 10201 Torre Ave., Suite 320, Cupertino, CA 95014. (Smith).

**EUROPEAN PIRATE:** Radio Orang Utan 6200 f/d "Ape" cd. w/ stickers and a form ltr. in 1 mo. 100 watts! Addr: Box 114, Heerenberg, Holland. (Lobdell-MA).

**EUROPEAN RUSSIA:** Radio Moscow 7150 via Armavir f/d cd. w/ personal ltr. in 50 ds. (Hosmer-MI). 7295 via Kazan f/d cd. in 50 ds. (Hosmer). 9720 via Moscow f/d cd. in 50 ds. (Hosmer-MI).

**FRANCE:** Radio France International 21635 f/d "60th Anniversary" cd. w/ schedule in 20 ds. for 1 IRC. (Martin-MI). 17620 same cd. w/ schedule in 4 wks. (Schwartz).

**NOTES:** James Galgano says he hopes to purchase the new Drake R8 receiver during 1992. Pretty good idea. He also said that he has recently seen an ad for "cable radio". Hope the idea doesn't catch on...Sam. Greg Martin, a new contributor to the QSL Column, says the QSL Gods have been smiling on him with some very nice verifications. Great! Richard Hankison, another new contributor, says that he is 39 years old and his wife has no interest in shortwave. (Join the crowd!) Rich utilizes an R5000 with an Alpha Delta sloper antenna. Ed Mayberry reports that he has received a New Year's silkscreen card from the Voice of Vietnam but still no QSL card. Ed also reports that Radio Moscow read his report over the air but has yet to receive his QSL. Ernest Lawrence has also sent in his first report to the Column. Great to have you with us...Sam. I also heard from the Fox which will be airing on your favorite frequency in the near future. Hi! Ross Comeau in Andover, MA asked when the last time anyone logged Tunisia. He hasn't seen it reported in the Journal in some time. I'm sure it has been heard by many. The question should be why hasn't it been reported very often. Very easy catch from the east coast...Sam.

**FRENCH GUIANA:** Radio Japan 15325 n/d "Kites" cd. in 4 wks. w/ no site even after specifically asking for one - the station even read my ltr. on the air! (Hoersten-OH). f/d "Ripe Persimmons" cd. w/ schedule in 35 ds. for 1 IRC. (Martin-MI).

**GABON:** Radio Japan 11735 f/d "Sunset in Nara" cd. w/ schedule. v/s K. Hishikawa. (Smith).

**GERMANY (West):** VOA Munich 15195 cd. in 60 ds. (Darling-PNG).

**GERMANY (East):** Deutsche Welle 13610 via Leipzig f/d ltr. in 30 ds. (Rigas-IL). 7275 via Nauen f/d "Satellitenradio fur Europa" cd. w/ schedule and site in 24 ds. for \$1.00. v/s Peter Senger. (Galgano-NY).

**GUANA:** Ghana Broadcasting Corp. 3366 f/d cd. in 1 mo. (Smith).

**GREECE:** Voice of Greece 9420 f/d "Aegean Sea" cd. w/ travel brochure and schedule in 33 ds. for 1 IRC. (Martin-MI). 9395 via Avlis f/d cd. in 1 mo. (Rigas-IL).

**GRENADA:** Radio Free Grenada 15045 f/d prepared \* cd. after 9 yrs. of rpts! This arrived 21 ds. after a rpt. to Mr. John Phillips, Studio Engineer. Amateur Call is J39CO. (Hosmer-MI).



**VERIFICATION SIGNERS: Radio Yerevan** 11790 R. Abalyan, Editor in Chief.

**Radiodifusora de Aquidauana** 4795 Carlos Alberto Trevisan. **Ecos del**

**Combeima** 4785 Jesus Erney Torres. **Escuelas Radiofonicas** 5011

Juan Perez Sarmiento, Director Ejecutivo. **Radio Cat-**

**olica Nacional** 5030 John Siguenza, Director

Adjunto. **Radio Pakistan** 11750 Ahmed Nawaz, Sen-

ior Broadcasting Engineer. **Radio Atlantida** 4790

P. Rojas Bardales. **Radio Sfax** 15450 Mohamed Abde-

lkati, Director / Smaoui Sadok, Chief Engineer.

via **PLAY DX...Sam.**

**GUAM: KSDA Adventist World Radio** 15610 f/d "20th Anni-  
versary" cd. in 49 ds. for 1 IRC.(Lamb-NY). f/d cd. in  
26 ds.(Helm-KS). same f/d cd. in 1 mo.(Berg-MA).

**GUATEMALA: TUNA** 3300 f/d cd. w/ personal note and schedule  
in 1 mo. v/s Wayne Berger, Chief Engineer.(walker-MI).  
p/d cd. in 57 ds. for 2 IRCs and \$1.00. Ltr. and schedule  
were rcvd.(Comeau-MA). **La Voz de Atitlan** 2390 p/d ltr. w/  
a large and colorful 25th anniversary station pennant for a  
SP rpt. Pennant showed station name and call letters (TGDS)  
along w/ an Indian in native garb.(Berg-MA). **Union Radio** 5981  
cd. w/ ltr. in 285 ds. for a SP rpt. and 3 IRCs. v/s Lizabeth de  
Moran. This after a f/up rpt.(Hankison-KS).

**GUYANA: Guyana Broadcasting Corp.** 5950 p/d ltr. w/ schedule in 5 mo.

for 2 IRCs. v/s S. Goodman, Chief Engineer. (Flosi-BRASIL).

**HAWAII: WWVH** 15000 f/d cd. in 10 ds.(Helm-KS). 5000 f/d folder cd. w/  
station brochure in 14 ds. for 1 IRC.(Martin-MI).

**HOLLAND: Radio Nederland** 6020 via **Plevo** f/d "Solar" cd. in 33 ds. for 1  
IRC. Sticker calendar was rcvd.(Hosmer).

**HONDURAS: HRCV La Voz Evangelica de Honduras** 4820 p/d cd. w/ personal ltr.  
in 25 ds. for a SP rpt. and 2 IRCs. v/s Orfa Duron.(Martin-MI).

**HONG KONG: BFC East Asia Relay Station** 7180 f/d "Sunset" cd. in 1 mo.(Smith).

15280 f/d "Junks in Harbor" cd. in 3 wks. direct from site.(Cox-OR).

**HUNGARY: Radio Budapest** 11910 f/d cd. in 39 ds.(Helm-KS). 9835 f/d cd. in 1 mo.  
for \$1.00.(Galgano-NY).

**ICELAND: Rikisutvarpid** 9265 f/d cd. in 3 wks. for \$1.00.(Smith). f/d cd. in 6 wks.  
(Lawrence-NY). f/d cd. in 22 ds. for 1 IRC.(Durdan-GA). f/d cd. in 19 ds. for

**INDIA: All India Radio** 11620 f/d "Snake Charmer" cd. w/ 2 IRCs.(Ondrechen-MA).

schedule in 73 ds. for 1 IRC.(Martin-MI). via **Bangalore** f/d cd. in 72 ds.(D'Angelo).

**IRAN: IRIB** 15084 p/d "Ayatollah Khomeini" cd. in 118 ds. w/ calendars, book markers,  
schedule and a tourist guide.(Mac-  
Harg).

**IRELAND: Radio Dublin International**

\* 6910 f/d cd. in 1159 ds. after 5  
f/up rpts. and two by registered  
mail w/ several \$1.00s along w/  
IRCs. v/s Eamon Cooke. Also rcvd.  
personal ltr. and a calendar.(Mor-  
by-NY). f/d ltr. w/ cd. for an 88  
reception. Also rcvd. a note apol-  
ogizing for the long delay.(Field-

\* **Jolly Roger Radio** 6230 form  
ltr. w/ personal ltr. in 7 wks.  
for a taped rpt. v/s Joe Vincent,  
Station Manager. (Berg-MA).

**ISRAEL: Kol Israel** 7465 f/d cd. w/  
schedule in 57 ds.(Friend-NY).

**ITALY: RAI** f/d cd. in 43 ds. for 1  
IRC.(Martin-MI).

**JAPAN: JJJ** 8000 "Antenna Farm" cd.  
w/ f/d QSL in 2½ wks.(Berg-MA).

**KIRIBATI: Radio Kiribati** 14917.5 (USB)  
p/d cd. in 3 mo. for 3 IRCs.(Hank-  
ison-KS).

**KOREA, DEMOCRATIC PEOPLES REP: Radio  
Pyongyang** 11735 p/d cd. w/ lots of  
propaganda goodies in 46 ds. I used  
a Japanese intermediary after yrs.  
of vain attempts.(Hankison-KS).

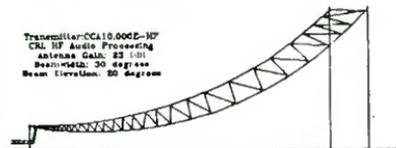
## The Secret Mountain Laboratory, Ltd.

Official QSL Sheet

Free Радио Релей Сервиге

QTH: N20,42,41-W158,15,28.

Transmitter: CA10,000E-107  
Ckt. HF Audio Processing  
Antenna Gain: 23 dB  
Beam Width: 30 degree  
Beam Elevation: 50 degree



SML Log Periodic Beam  
to North America  
and Western Europe

This will confirm  
received SML ltr.

date: 4-28-91 0244-0330 UTC  
Frequency: 7415 KHz

The Secret Mtn. Laboratory is a Free  
Radio relay station, with locally  
produced programs as well. Now in  
its eighth year of Broadcasting!



1130KC. ONDA LARGA-3365 MC. ONDA CORTA

via Andreas Schmid

W.F.-M.-J. 10:00

# Radio Exitas

SANTIAGO. REPUBLICA DOMINICANA

KOREA, REP. OF:

Radio Korea

9750 f/d cd. w/ schedule and sticker in 93 ds. (Helm-KS). 15575 f/d cd. in 1 mo. w/ schedule. (Lawrence-NY).

LATVIA: Radio Riga 5935 f/d "Panorama of Old Riga" cd. w/ schedule and a cloth pennant in 330 ds. after 2 f/up rpt. (Field)

LEBANON: Wings of Hope 11530 f/d "World Map" cd. in 17 ds. for \$1.00. Rpt. was sent to Box 77, Metuila. (Ondrechen-MA). same in 45 ds. (Smith).

MALAGASY REP: Radio Nederlands 15150 f/d cd. in 30 ds. for 1 IRC. (Martin-MI).

MALI: Radio Beijing 9770

f/d cd. w/ papercuts

and sticker in 22 ds. for 1 IRC. (Martin-MI). 11715 f/d cd. w/ site in 50 ds. (Helm-KS). f/d cd. in 3 wks. w/ sticker and schedule. (Smith).

FRONT POLISARIO

LA VOIX DU SAHARA LIBRE

via Darling

CERTIFICAT D'ECOUTE

MALTA: Voice of the Mediterranean 9765 f/d cd.

in 25 ds. for 1 IRC. (Martin-MI). f/d cd.

in 34 ds. for 1 IRC. (Lamb-NY). same in 14

ds. after a f/up rpt. (Helm-KS). f/d cd.

in 19 ds. for 1 IRC. (Durden-GA). Deutsche

Welle 11865 f/d cd. in 56 ds. (Helm-KS).

MONACO: Trans World Radio 9480 f/d cd. w/

schedule in 28 ds. for 3 IRCs. v/s Jeanne

Olsen. (Christensen-ALB). f/d cd. w/ site

and schedule in 18 ds. (Galgano-NY). "World

Map" cd. w/ schedule in 1 mo. for 2 IRCs.

(Martin-MI). same cd. w/ schedule in 18 ds.

(Schwartz).

MONGOLIA: Radio Ulaanbaatar 5000 f/d brown "Mongolian Writing Card" for domestic service

in 5 wks. Also rcvd. schedule and a ltr. from the Mail Editor. (Cox-OR).

NEW BRITAIN: Radio East New Britain 3385

f/d "Bay and Mountains" cd. in 4 wks. for ms. v/s esekia Mael. (Cox-OR).

NEW ZEALAND: Radio New Zealand International

17770 p/d cd. in 5 wks. for 4 IRCs. (Hoer-

NORWAY: Radio Norway Inter- sten-OH).

national 17790 f/d cd. in 16 ds. (Helm-KS).

PAKISTAN: Radio Pakistan 13665 p/d cd. w/ ltr.,

schedule and sticker in 40 ds. for a taped

rpt. v/s Anwar Inayet Khan, Senior Broad-

cast Engineer. (Lamb-NY). f/d ltr. in 5 wks.

Also rcvd. schedule and pennant. (Lawrence).

PAPUA NEW GUINEA: NBC 4890 p/d cd. in 25 ds.

for 2 IRCs and \$1.00. v/s G. Nakay. (Com-

PARAGUAY: Radio Nacional 9735 eau-MA).

n/d ltr. in 20 ds. via registered mail

after a f/up rpt. in SP w/ \$1.00. v/s File-

mon G. Arguello M. (Durden). ltr. w/ tourist

brochure in 5 mo. for a SP rpt. and ms.

(Prisco-PA).

PERU: Radio Andahuaylas 4840 f/d ltr. in 2 mo.

\* for a SP rpt., taped rpt. and \$1.00. v/s

Daniel Andreu C., Garente. (Lamb-NY).

PHILIPPINES: Radio Pilipinyas 17840 f/d cd.

in 22 ds. for \$1.00. v/s E. Agato. (Wilks-

CO). 21580 long, white cd. in 5 wks. (Berg).

f/d cd. in 15 ds. (Yamada-JPN). f/d cd. in

12 wks. for a taped rpt. and 1 IRC. (Lob-

dell-MA).

Nous avons reçu votre rapport d'Ecoute daté du

August 16<sup>th</sup> 1941

Nous avons le plaisir de confirmer votre rapport,

ainsi que les indications pour l'écoute

15. 115. 1043 (Bismillah) (Lamb-NY)

qui correspondent effectivement à vos émissions.

Cordialement  
L'Administration  
SANTAGO

# RADIO PLOXII

AL SERVICIO DE LA FAMILIA MINERA CAMPESINA  
via Andreas Schmid

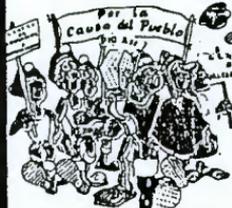
11 de Mayo  
1950

prohibido hablar  
por el pueblo...



1949  
1975  
1976  
1978  
1980  
1988

...es el  
pueblo que  
debe decir  
su propia  
palabra.



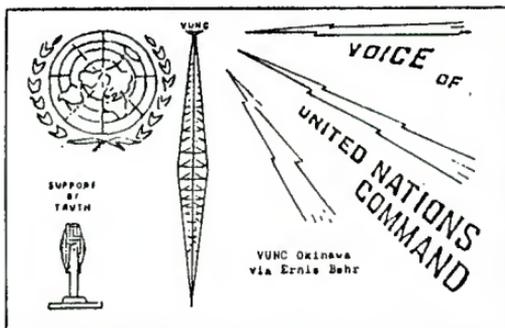
ONDA CORTA  
5955 MHz 49 MHz  
SIGLO XX

1991

ONDA MEDIA  
710 MHz

POTOSI

BOLIVIA



**PORTUGAL: Radio Portugal** 9705 via **Gloria** f/d cd. w/ schedule and sticker in 54 ds. (Christensen-ALB). **RFE/RL** 11725 p/d "Map of Europe" cd. w/ paper pennant and schedule in 3 wks. (Schwartz).

**ROMANIA: Radio Romania International** 11940 f/d cd. w/ schedule and pennant in 112 ds. (Helm-KS).

**RWANDA: Deutsche Welle** 7225 n/d cd. in 41 ds. for 2 IRCs. (Comeau-MA). 17860 f/d cd. in 24 ds. (Helm-KS).

**SATPAN: KHBI** 13625 f/d "Antenna Array" cd. in 24 ds. for 2 IRCs. (Martin-MI) f/d cd. in 19 ds. (Helm-KS). 9530 cd. in 61 ds. (Durden).

**SARAWAK: Radio Television Malaysia** 5005 f/d "Broadcasting House" cd. in 42 ds. for \$1.00. (D'Angelo-NY).

**SENEGAL: ORTS** 4890 f/d cd. w/ sticker in 2 mo. for a FR rpt. and 2 IRCs. (Wallace-CT)

**SEYCHELLES: FEBA** 9660 f/d cd. w/ ltr. and schedule in 1 mo. v/s Mary Asba, QSL Secretary. Also rcvd. postcard and stickers. (Flosi). 9565 f/d cd. in 69 ds. for 2 IRCs and \$1.00. (Comeau-MA).

**SINGAPORE: BBC Far East Relay Station** 9740 via **Kranji** f/d cd. w/ site in 4 wks. for 2 IRCs. (Cox-OR).

**RADIO VOZ DE S. VICENTE**  
 Sintonizame desde Orlas  
 CR 4 AC

Antenas: F. M. — Sintronic - 50 w  
 S. W. — Phillips do Brasil 1 Kw  
 Prpq. — F. M. - 96 Mhz  
 S. W. - 3960 KHz  
 Em montajem: Contel — S. W. - 10 Kw

Tel. C. 3107 9168 Caixa Postal, 99 E. Vicente - Cabo Verde

TO: G.N. DARLING  
10, OSTERLEY DRIVE,  
CAYERSHAM PARK,  
READING,  
RG4 0XP,  
ENGLAND

**SPAIN: Radio Exterior de Espana** 9630 f/d "Museo Picasso" cd. in 3 wks. (Cox-OR).

**SRI LANKA: Deutsche Welle** 9670 f/d cd. in 24 ds. (Helm-KS). **Radio Japan** 9535 via **Ekala** f/d "Tower Graphic" cd. v/s K. Hishikawa. (Cox-OR).

**SWAZILAND: Trans World Radio** 3240 p/d folder cd. in 3 mo. for \$2.00. v/s Carol Tatlow. (Taylor-PA).

**SWEDEN: Radio Sweden International** 21500 f/d "Wildlife" cd. w/ schedule and sticker in 7 ds. (Schwartz)

**SWITZERLAND: Swiss Radio International** 9535 via **Lenk** f/d cd. in 1 mo. for \$1.00. (Galgano-NY). **Red Cross**

**Broadcasting Service** 6135 f/d cd. w/ schedule and calendar in 42 ds. for 1 IRC.

**SYRIA: Radio Damascus** 12085 f/d cd. w/ "Syrian Times" in 143 ds. (Lamb-NY). via registered mail for 2 IRCs. (Martin-MI).

**TAIWAN: Voice of Asia** 7445 f/d cd. in 5 wks. w/ sticker and schedule. (Lawrence-NY). **Voice of Free China** 11580 f/d "Artworks by Orphans" cd. w/ schedule and sticker in 4 wks. (Schwartz-NY).

**TURKEY: Voice of Turkey** 9445 f/d cd. w/ schedule in 37 ds. (Helm-KS).

**UKRAINE: Radio Moscow** 17670 via **Simferopol** f/d "Kremlin" cd. w/ schedule in 47 ds. (Galgano-NY). 7115 via **Ivano-Frankovsk** f/d cd. w/ personal ltr. in 50 ds. (Hosmer-MI). 7240 via **Kharkov** f/d cd. in 50 ds. (Hosmer-MI). **Radio Kiev** 11790 cd. in 87 ds. (Levison).

**USA: WRNO** 15420 p/d cd. in 3 wks. for ms. New Addr: 4539 I-10 Service Rd., Metairie, LA 70006. (Hoersten). **WSTB** 13760 f/d cd. in 9 wks. for 1 IRC. v/s Judy P. Cooke. (Martin-MI). **WNCR** 7520 f/d cd. w/ schedule in 8½ mo. and \$1.00. (Wallace-CT). **KVOH** 17775 f/d "World Map" cd. w/ schedule and ltr. in 32 ds. for \$1.00. v/s Patrick C. Kowalick, On-Air Minister. (Lamb-NY).

**SISTEMA RADIOPOLIS S.A. DE C.V.**

México, D. F., Junio 3 de 1957.

DR. RICHARD A. D'ANGELO  
 2216 BURGESS DRIVE  
 WYOMISSIC, PA 19110  
 EX. 10. DE A. ( U. S. A. )

Estimado Amigo: Querido:

Ha sido un honor el recibir su amable carta y saber que cuando nuestra estación "XEV", por lo que con mucho gusto me permito reproducir un QSL, debido las gracias un nombre de nuestro equipo por su preferencia.

Como muestra de nuestro agradecimiento a su carta, le enviamos un bundle de una de nuestras estaciones XEV México, esperando sea de su agrado.

ATTN: MEXICO.

ING. RIGOBERTO BARRIENTOS V.  
 GERENTE TÉCNICO DE PLANTAS TRANSMISORAS.

Have you noticed that when I use the small type there is usually a great many QSLs to report.....and still I run out of space. Last month I didn't have enough reports to fill out the Column. You'd think after all these years I'd get this stuff down. Hi! Best of QSLing.....Sam.

# NASWA Scoreboard

**Jerry Lineback**  
6361 Shore Drive  
Douglasville, GA 30135



Welcome to the NASWA SCOREBOARD for March, 1992. This month the SPOTLIGHT is on Asia. Remember that C/H = Countries Heard and C/V = Countries Verified. The country count is according to the official NASWA Radio Country List. You may participate on the SCOREBOARD by sending me your DX totals. You should update all totals each time you submit an update to me. You must update at least once a year to remain listed on the SCOREBOARD. The next deadline is May 15 for the June issue of the Journal. The SPOTLIGHT at that time will be on Europe. On to the statistics.

\*\*\*\*\*

Name, State	Total		Asia		Best Asian QSL
	C/H	C/V	C/H	C/V	
Gordon Darling, P/NG	235	229	68	65	Turkiye Polis
Marlin Field, MI	228	224	64	61	RRI Serui
Jerry Berg, MA	225	224	63	63	Port. Timor
William Flynn, OR	225	208	64	55	BCS Kure, Japan
Harold Cones, VA	223	214	58	49	
Terry Palmersheim, WA	221	204	61	54	RTV Hong Kong
Nobuaki Takahashi, Japan	221	189			
Mitch Sams, MO	221	171	63	43	Kashmir 3277
Steven Lare, MI	220	185	57	47	Hong Kong 3940
Al Miller, OH	217	209	62	58	Nepal
John Sgrulletta, NY	215	215	56	56	VoPeace
Del Fye, FL	212	197	58	52	Ambon
Kevin Atkins, AL	211	185			RKIP Surabaya
Ron Howard, CA	210	190	58	51	NHK Kumamoto
Kirk Allen, OK	209	200	60	58	RKPKDT2Lumajang
Sheryl Paszkiewicz, WI	209	198	60	53	Sri Lanka BC
Rick Krzemien, CA	209	195	61	59	Bhutan
Donald Hosmer, MI	209	177			
Paul Buer, FL	208	197	55	52	VoPeace
Jerry Lineback, GA	205	108	55	15	Ujung Pandang
Robert Ross, Ont.	200	177	53	45	Mongolia 4080
Mike Hardester, NC	197	184	54	50	AFNT Taiwan
Tom Daly, NY	197	45	53	8	Turkiye Polis R
Fred Kohlbrenner, PA	188	157	49	42	Cambodia
Jerry Klinck, NY	184	156	52	41	Ulanbaatar R.
Henry Michalenka, RI	184	153	47	36	Thai Meteor.
Larry Kramer, CO	183	108	51	24	Brunei
Hadley Cress, VA	182	8			
Charlie Washburn, ME	178	143	34	28	Ulan Bator
Tom Laskowski, IN	177	141	36	28	Mongolia
Greg Hart, FL	173	124	46	32	RRI Surakarta
Ichiro Maruo, Japan	172	105	61	36	AIR Guwahati
Rev. John Eckert, PA	171	155	44	41	Sri Lanka BC
Jim Renfrew, NY	170	134	41	36	Cambodia
Andy Rugg, Que.	165	151	41	38	BBC Singapore
Allan R. Loudell, DE	165	130	44	34	Manchuria/Tibet
Carl Mann, NB	157	140	41	35	Burma 4825
Daniel Prisco, PA	156	131	35	30	Afghanistan
Thomas Ross, IL	152	130	38	31	RTV Hong Kong
Cris Hazzard, PA	151	122			
David Morby, NY	149	42	36	4	R. Jordan
Bill Taylor, PA	148	114	33	26	BSF
Carl Radtke, WA	147	147	39	39	Oman
David Edger, VA	147	120			

Name, State	Total		Asia		Best Asian QSL
	C/H	C/V	C/H	C/V	
Robert Landau, NJ	137	120	31	26	Turkey Meteor.
Ross Comeau, MA	136	86	32	21	R. Veritas Asia
Robert A. Wallace, CA	134	103	42	29	Brunei
Richard Hankison, KS	132	102	34	25	Pyongyang
Joe Kremer, IN	131	85	27	20	Sri Lanka BS
Richard Wallace, CT	127	72	15	8	
Stephen Price, PA	126	100	33	27	Afghanistan
David Turnick, PA	123	104			
Bill Kurrasch, NY	122	91			
Randy Doyle, AR	114	64	25	11	VoPhilippines
Jerry Ervine, TX	113	85	20	8	AIR New Delhi
Mark Spat, NH	108	26	19	8	R. Beijing
Robert Carlsen, OH	106	87	25	16	Burma BBS
Edward Stroh, IL	100	82			
Brian Boulden, CA	90	73	22	19	R. Ulanbaatar
Royal Berglee, ND	81	51	21	9	R. Pyongyang
Scott Helm, KS	78	53	21	12	R. Pyongyang
Lowell Pankake, MN	78	2	17	0	
Bruce Orenstein, NY	76	66			
Rev. William Peake, IA	70	54	13	8	Vo Vietnam
Barry Schwartz, NY	59	12	15	3	U.A.E. Radio

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Thanks to all who shared their DX totals with SCOREBOARD this month. There were several new contributors. Please send your DX totals to me by the next quarterly deadline of May 15. The SPOTLIGHT will be on Europe.

73s

FOR SALE: Yaesu FRG-7700 receiver in excellent condition. Tunes 150 kHz to 30 MHz with PLL tuning and 1 kHz display. Includes AM/USB/LSB/CW/FM reception, 12 station memory with fine tuning control, clock/timer with external equipment switching ability. Good audio with tone control. Very stable tuning circuit. Gilfer modifier IF filter system with 2.2, 4.0, and 6.0 kHz. Included are all of the cables and a compatible tape recorder for timer-controlled recording, manual, schematic, and other paperwork. \$475.00. John Barkoot, 26181 Briardale, Euclid, OH 44132. Phone (216) 731-1346.

FOR SALE: Yaesu FRT-7700 antenna tuner in excellent condition. Seldom used and in original box. \$40.00 or will consider trade offer. Ed Cichorek, P.O. Box 215, New Brunswick, NJ 08903. Phone (908) 545-2999.

FOR SALE: IC R71A in excellent condition, \$550.00. WRTHs 1981 to 1991, '81 and '82 copies are hardbound! Best offer for the set. FM Atlas 6th and 7th editions, \$4.00 for both. "Secrets of Successful QSLing," 1st edition, \$5.00. Tom Laskowski, 1334 East Miner St., South Bend, IN 46617. Phone (219) 234-8598. Ask for Tom only.

WANTED: Panasonic RF-4900 receiver. Please give condition and price. Dino Bloisse, 244 Princeton Ave #3, Jersey City, NJ 07305.

WANTED TO BUY: I am looking for a record called "For Shortwave Listeners: The Rarest DX in the World" Vol. #1. If anybody has this album for sale or knows where it can be obtained, please contact me. Dave McLaren, PO Box 665, Sheffield, IL 61361. Phone (815) 454-2204.

WANTED: Panasonic RF-2200 or Sony ICF-5900W in excellent condition. Jay Golden, 757 South Winton Road, Rochester, NY 14618. Phone (716) 271-7195.

WANTED: 75A4 in mint or near mint condition. Will pay top bucks. Robert Bell, 89 Ridgehill Drive, Toronto, Ontario Canada M6C 2J7.

FOR SALE: 10:1 matching transformers which work well for matching both beverage or random wire antennas to 50 ohm coaxial cable. \$17.00 each plus \$2.00 shipping. Steven R. Lare, 824 West 25th Street, Holland, MI 49423.

# Contributors' Page

Vernon Hyson  
5410 Camp Stewart Road  
Charlotte, NC 28215  
CompuServe 76516,1531



## LOGGINGS CONTRIBUTORS - MARCH 1992 - DEADLINE 10th of MONTH

The following members contributed loggings:

Frank ADEN, Jr., Boise, ID	FRG7 HQ180A CR2021 Inv V 180' LW 45' LW
Brian ALEXANDER, Mechanicsburg, PA	NRD525 various Longwires
Jerry BERG, Lexington, MA	R8 HQ180A R390A 150' Longwire
Brian BOULDEN, Fairfield, CA	RK641 Indoor LW
Ralph BRANDI, Middletown, NJ	Sony 2010 RF4900 DC777 40' Random
John CARSON, Norman, OK	NRD525 ICR2010 ATS803A SPR4 AD Sloper 500' Beverage
David CLARK, Newmarket, ONT	R7 (2) HQ180C Collins 51S-1 (see below)
Kurt COX, Leaburg, OR	DX440 SX190 60m Dipole
Richard D'ANGELO, Wyomissing, PA	R70 AD Sloper
John DAVIS, Johnstown, OH	NRD515 R390 R391 Inv V AN1 234' LW
Adie DURDEN, Albany, GA	NRD515 SE3 Inverted V
Jerry ERVINE, Hildalgo, TX	R2000 Longwire
Marlin FIELD, Hillsdale, MI	NRD535D SPR4 Eavesdropper
William FLYNN, Cave Junction, OR	R2000 TUN3 Sony 2010 R7A 140' LW 85' Dipole
Harold FRODGE, Midland, MI	R71A AP4 DX302 Sony 2002 Trap Dipole 185' Random
James GALGANO, Seneca Falls, NY	Grundig Satellite
Michael HARDESTER, Jacksonville, NC	R70 Sony 2010 75' Random RWest Loop
Gerald P. HART, Moorhead, MN	NRD535D Sony 2010 AD Sloper LW
Hans JOHNSON, Columbia, MD	R71A AD370 MAP
Jerry JOHNSTON, Lexington, KY	NRD525 Eavesdropper LW
Rufus JORDAN, Pittsburgh, PA	DX302 Transoceanic
W. KARCHESKI, Holden, MA	R5000 AD Sloper
Jerry KLINCK, West Seneca, NY	R8 R5000 HQ180A Sony 2010 350' Mini Bev 2 60m Dip
Marie LAMB, Brewerton, NY	R600 20m Longwire
Ernest LAWRENCE, Perry, NY	DX440 70' LW
Harold LEVISON, Philadelphia, PA	R8 R70 D2999
Ichiro MARUO, Akaiwa-Gun, JAPAN	
Chuck OLIVER, Spring, TX	R1000 Eavesdropper
Bruce ORENSTEIN, Mt. Kisco, NY	Sony 2010 AD Sloper
Tony ORR, Reston, VA	Sony 2010 MFJ16010 75' Longwire
Martin PECK, New York, NY	NRD515 R71A FRG7
Doug ROBERTSON, Oxnard, CA	DX302 FRG8800 FRA7700 Longwire
Robert ROSS, London, CA	Collins 651 Sony 2010
Robert TUCKER, Savannah, GA	ATS803A
Dan UNRUH, Ellensburg, WA	R71A S107 Random Wire
Mike WESTDAL, Sacramento, CA	R8 AN! Sony 2010 Eavesdropper
Mike WOLFSON, Ashland, OH	R5000 Sony 2010 125' Longwire
Juichi YAMADA, Nara, JAPAN	NRD525 50m Dipole

ANTENNAS - for most of us, the weakest link in our listening equipment. To prove a point, I will list the full antenna complement of David Clark. I am sure we all have recognized the quality reports he consistently sends in and his antennas are a big reason: 400+' NE Longwire, 400+' NW Beverage, 300+' 2-wire Beverage E-W, 400+' 2-wire Beverages pointed N-NW-SSE, N-S, & NE-SW! End of sermon.

Enjoyable listening & good DX -



# Tropical Band Loggings

Sheryl Paszkiewicz  
1015 Green Street  
Manitowoc, WI 54220

- 2325 AUSTRALIA, VL8T, 2/8, 0934 Rugby, ID (GP) 1012 Big Band mx, //2485, not //2310 (Ross-ON)
- 2390 GUATEMALA, LV Atitlan 1/25 0315 marimbas, ID (Ervine-TX) 1/10 1145 ID, pgm "Amaneciendo con Cristo" (Durden-GA)
- 2390 UNID, 1/18 1118 poss IN tlk, QRN, RRI Cirebon? (Hart-MN)
- 2410 NEW GUINEA R Enga 1/26 1251 C&W pops 1314 fade (Clark-ON)
- 3200 SWAZILAND, TWR 1/24 0315 rel in lang, ID 0315 (Durden-GA)
- 3205 INDIA, AIR Lucknow 1/27 0023 IS, anmts TP Hindi nx (Clark)
- 3205 JAVA RRI Bandung 1520 gamelan, anmts, noisy (Flynn-OR) 1/18 1627 folk mx (Maruo-JAPAN) 1/12 2208 best ever, rel tlk fade 2235 (Clark-ON) 2250 SCI, ID, nx (Durden-GA) 2254 strong het & weak audio (Ross-ON)
- 3210.5t MOZAMBIQUE, RM 1/24 0320 PT nx, mx, fade 0400 (Durden-GA)
- 3214.8 SULAWESI RRI Manado 1/26 1243 mx, SCI, nx, lcl ID (Clark-ON)
- 3220 ECUADOR HCJB 1/18 0827 SP ID, mx, FC, Quechua 0830 (Lamb-NY)
- 3220 NEW GUINEA R Morobe 1/30 1247 EG TC, island mx, short HA 1300 (Johnston-KY)
- 3221.4 TOGO, R. Kara 1/30 2243 mx pgm, "Blueberry Hill" ID (Durden)
- 3222.9 SUNDAS RRI Mataram 1/12 1155 tlk, chime IS to 1200+ (Clark)
- 3224.8y SUMATRA RRI Tanjung Pinang 1/21 1120 Koran, ID, nx (Maruo) 1/12 Jak nx, anthem 1210, tlk, weak/noisy & ute QRM (Clark) 1/25 2245 tlk, Muslim mx, SCI 2259 (Clark-ON) 1/29 2312 strong, nx to 2320, quick fade (Durden-GA)
- 3230 PERU R El Sol de los Andes, 1/11 2340 IDs, OA mx (Durden-GA)
- 3231.9 SUMATRA RRI Bukittinggi 1/9 1530 IS, clock chime, tlk (Flynn) 1/24 2255 Indo pops, Jak nx, fair to 2315 tune out (Clark-ON) 1/18 2319 IN tlks, faded 2330, QRN (Durden-GA)
- 3235t BRAZIL RC Marilia 1/1 0056 PT cowboy mx, weak anmts (Flynn)
- 3235 NEW BRITAIN RWNB, 1/14 1940+ pop mx pgm (Maruo-JAPAN)
- 3255 BRAZIL R Educadora Cariri 1/25 0103 mx, ID 0103 FC (Durden)
- 3255 INDIA INES Shillong 2/1 1225 ID, "please stand by for Delhi," TP, Delhi nx, best Indian on band (Clark-ON) 1/17 1535 EG nx w/Aussie accent, ment World Dev. Bank & Constitution Day PSAs, 1 chime, into vcls, fair (Flynn-OR) 1/18 1630 tent w/lcl nx? (Maruo-JAPAN)
- 3255 LESOTHO BBC 1/15 0350 EG interview, soccer update (Cox-OR)
- 3260 NEW GUINEA R Madang 1/14 1955-2015 island pops (Maruo-JAPAN)
- 3264.6 SULAWESI RRI Gorontalo 1/26 1230 close anmts 1231\* (Clark-ON)
- 3264.9 SUMATRA RRI Bengkulu 2/8 2244 chicken cluck, ID, SCI (GP) GP=Gifford Pinchot Park DXpedition
- 3270 NAMIBIA NBC, 2/1 0410 EG nx, African chorus, pops (Lawrence)
- 3275y MOZAMBIQUE EP Sofala tent 1/11, 0330 tlk in lang, drums, QRN & 0400 fade (Durden-GA) 1/28 0344 best ever sig, clear ID, hilife, weak by 0355, best Afr opening (Clark-ON)
- 3280 ECUADOR LV del Napo, 2/7 0219 pops, ID, TC (Orr-VA)
- 3289.9 ECUADOR R Centro 1/18 0851 anmts, ID, HC mx (Alexander-PA)
- 3290 NAMIBIA NBC 1/27 0400 EG IDs, George Benson, BBC Afr nx 0415, ads, good (Tabatowski-IN) 1/2 0415 EG nx, UN pgm poor (Flynn-OR) 1/14 0420 UNESCO rpt, 0430 nx (Hart-MN) 1/2 0421 NBC ID, nx, interview, flute (Lamb-NY) 1/29 2303 Afr nx, ID, class mx (Durden-GA)
- 3295 ICELAND INBS 1/22 0545 pops, IS, Icelandic nx //9265 (Clark) 1/24, 0835 choral mx, ID, tlks (Lamb-NY)
- 3300 GUATEMALA, R Cultural 1/21 0418 "Insight for Living," "Crossroads," 0430 mx (Carson-OK)
- 3304.5 INDIA AIR Ranchi 1/11 1235 EG nx, Hindi nx //3355 (Clark-ON)
- 3305 PAPUA R Western 1/18 1258 weak w/vcls, Closing, anthem (Clark)
- 3306.1 TIMOR RRI Dili 1/26 1245 mx, off 1315 recheck (Clark-ON) 1/25 1422 IN pops (Maruo-JAPAN)
- 3310.3 BOLIVIA R San Miguel 1/18 2339 ID, CF mx, noisy (Durden-GA)

3315 ADMIRALTY R Manua 1/21 1140 PD tlc, island mx (Maruo-JAPAN)  
 3315 INDIA ATR Bhopal \*0023 IS, tlks, anthem (Ross-ON) 0055 best  
 ever evening sig, pops, nx 0125 //4860 (Clark-ON) 1/18 1635  
 folk mx //3365, 3375 (Maruo-JAPAN)  
 3316 SIERRA LEONE SLBS 1/18 2258 Phil Collins, EG ID, nx (Durden)  
 3324.9 BORNEO RRI Palangkaraya 2/1 1254 EZL mx, SCI, nx (Clark-ON)  
 1/25 IN tlks, pop mx (Maruo-JAPAN)  
 3330 PHILIPPINES FEBC 1/24, 0952-1015\* nx, ID, IS (Maruo-JAPAN)  
 3330 RWANDA R Rwanda 1/28 0351 LSB to avoid CHU, FR mx, IS on  
 oboe, shifted from 3330.4 & Comoros not being hrd (Clark-ON)  
 3335p TAIWAN CBS Taipei 2/2 1233 CH dialect, sudden fade (Clark-ON)  
 3339.9 PERU R Altura 2/7 0157 pops, ID 0159, rel tlc (Orr-VA)  
 3350.5 UNID 1/11 0300 SP s/off amts, NA, missed ID in GRN (Durden)  
 3360 GUATEMALA LV Nahuala 1/16 0240 tlc, some marimbas (Levison)  
 2/4 1118 TCs, ranchera mx (Field-MI)  
 3366 CUBA R Rebelde 1/21 0243 remote rpt //5025, fair (Frodge-MI)  
 1/21 0445 ID, nx by YL, fair (Carson-OK) 1/12 0640 ID &  
 discuss, exc (Cox-OR)  
 3366 GHANA GBC 1/31 2220 ID, civil svc reform, good (Durden-GA)  
 1/28 2250 EG nx, ID //4915 to 2257, 2304\* (Tabatowski-IN)  
 3370 GUATEMALA R Tezulutlan, 1/6 1130 tlc abt Epiphany, inaugura-  
 tion of univ (Durden-GA) 1/11, 0225 ID, marimbas/flutes  
 (Peck/Bianco-NY) 1/29 1200 fair //4835 (Tabatowski-IN)  
 3374.3 SUMATRA RRI Medan 1/11 2227 amts tlc, lcl ID, good to have  
 them back (Clark-ON)  
 3374.5 NEW GUINEA R Western Highlands 1/21 1147 PD, island mx (Maruo)  
 3375 ANGOLA RN 1/1 0458 ID, FC (Durden-GA)  
 3377.5p JAPAN NIK Osaka 2/1 1243 class mx, amts, vcls (Clark-ON)  
 3380 GUATEMALA, R Chortis tent 1/11 0232 folk mx (Peck/Bianco-NY)  
 1/8 1144 ID, "Amanacer Campesino" pgm, mx, greetings (Durden)  
 3384.9 SUNDAS RRI Kupang 2/2 1203 Jak nx, anthem, lcl ID, clear till  
 PNG faded up (Clark-ON)  
 3395 ECUADOR R Catolica 1/22 1020 w/NA, prayer, ID, "El Santo del  
 Dia," nx, TCs, still good 1120 (Berg-MA) 1/11 2355 ID, rel  
 mx, "comunicados." (Durden-GA)  
 3395.1 SUMATRA RRI Tanjungkarang 1/12 2207 Jak nx, anthem, rel tlc  
 big sig (Clark-ON) 2/1 2238 percussion mx, IN tlc, morning  
 exercise pgm, 20-minute workout! (Ross-ON)  
 3500 COLOMBIA LV del Guainia, 2/1 \*1018 NA, ID, lively mx (Ross-ON)  
 3529.5p SUMATRA RPDP? Asahan 1/12 2215 tlc, vcl, 2240 fade (Clark-ON)  
 3904.8 SUMATRA RRI Banda Aceh 1/21 1154 Koran, QRM New Ireland (Maruo)  
 1/26 2300 clear, vcls, IS, ID, ham QRM 2334 (Clark-ON)  
 3925 JAPAN R Tampa 2/8 0930 JP cmtry, jingle ID 0959 (Lawrence-NY)  
 3925 PAPUA NBC Port Moresby reactivated, 1/11 1330 Karai svc //  
 4890, mx, no sign of NSB, per Darling, 2.5 kW (Clark-ON)  
 3935p NEW ZEALAND ZLXA 2/2 0725-0801\* EZL, phone no, 0730 poss nx  
 instls, tlc, fair at peaks, some ham QRM (Ross-ON)  
 3960 CHINA Kinjiang PBS 2/2 2314 //4500, strong orch mx (Clark-ON)  
 3975 ENGLAND BBC Skelton 1/21 0444 GM ID, IS, nx (Lamb-NY)  
 4000 CAMEROON, R Bafoussam 1/18 1740 Afr pops, tlks, fair (Maruo)  
 1/26 2201 nx, 2206 ID //4750, 4850, poor (D'Angelo-PA)  
 4000.3 SULAWESI RRI Kendari 1/25 1440 IN DJ pgm, tlc (Maruo-JAPAN)  
 4003.3 SUMATRA RRI Padang 2/1 2243 long IN tlc, most Sumatrans in  
 (Ross-ON)  
 4065p GIAND Vo Iranian Kurdistan 1/10 0400 lang, ME mx, weak (Alex.)  
 4079.6 MONGOLIA R Ulaanbaator 2/2 2257 good class mx, amnt, 6 TP,  
 amnt, fanfares //4995 (Clark-ON)  
 4237 PERU R Inca 1/25 1113 huaynos, IDs, low modulation (Durden-GA)  
 4299.4t PERU R El Puerto 1/31 1003 OA mx to 1100, poor (Field-MI)  
 4435.1 BOLIVIA LV Tropico 1/24 2320 Andean mx, clear ID (Clark-ON)  
 4449.9 BOLIVIA R Frontera 2/7 2315, ID 2335, vcls, tnx Wilkner (GP)  
 4460 CHINA CPBS 1 2/2 2300 CH tlc //5915, 5230, mx (Alexander-PA)  
 4485 CIS R Bashkir 1/26 1200 ID, RS nx, good (Tabatowski-IN)  
 Kamchatka R, 2/8 1245 sev IDs, orch & folk mx (Lawrence-NY)  
 4505 UNID 1/30 0825 PT? rel pgm, also 1/31 0017, poor (Field-MI)  
 4600 BOLIVIA R Perla del Acre 1/31 0911 folk mx, ID, ment Cobiija  
 (Lamb-NY) Tnx for the logs--I hear you often on HCJB--sp

4635t TADZHIKISTAN R Dushanbe 1/11 0244 tlk, folk mx, poor w/  
 Tor ute CRM (Peck/Bianco-NY)

4679.5t ECUADOR RN Espejo 1/25 0217 anmts, ads, weak (Alexander-PA)

4700 UNID poss EG tlk 0347-0350 abruptly gone (Field-MI)

4725 MYANMAR Vo Myanmar tent 1/24 1305 SE Asian mx, gongs, IS  
 1329, ute CRM annoying, fade 1345 (Hart-MN) 2/2 1310  
 vcls, instl theme, tlks, close at 1345 (Clark-ON)

4735 CHINA Xinjiang PBS 2/2 0055 CH mx, TP, tlk //5800, 3990 (Alex)  
 2/6 2323 lang, CH vcls, YL host (Orr-VA)

4740 CIS RWWS 1/5 0115 EG mx, class mx, ID, no Afghan relay (Alex)

4746.6 PERU R Huanta 2000 2/1 1025 ID, anmts, weak (Durdan-GA)

4746.8t BOLIVIA LV Tropico 1/31 2347 pops, jingles, echo anmt (Ross)

4750 CAMEROON R Bertoua 1/15 2204-2228\* FR nx, ID 2211, pops,  
 anmts, NA, fair (Orr-VA)

4752.2 PERU R Huanta 2000 2/8 1035 rustic mx, canned ID (GP)

4753.4 SULAWESI RRI Ujung Pandang off the air 1/11 & 1/12. 2/1  
 2158 anthem, ID, SCI, Jak mx, anthem, echo anmt (Clark-ON)  
 1/17, 1348 tone, 1400 ID, nx (Ervine-TX) Gd to hear from U  
 1/14 1404 IN tlk, ment Sulawesi, mx (Hart-MN) 1/13 1450  
 tlk, pop mx, lcl ID, IS, Jak mx, not hrd 1/11 & 1/12 (Yamada)  
 1/31 2202 IN nx, instl, ID, mx pgm (Ross-ON)

4760 CHINA Yunnan PBS 2/6 2300 nx //5320, lcl ID 2312 (Orr-VA)

4765 CONGO RTV Congolaise 2/2 2137 FR, Afr hilife, good (Klinck-NY)

4770 NIGERIA R Nigieria 1/27 0530 EG ID, ad for "Kaduna Chamber of  
 Commerce" (Tabatowski-IN) 2/2 2218 EG ID, Afr mx (Klinck-NY)

4774.7 JAVA RRI Jakarta 1/17 1310 IN nx //4753.5 (Durdan-GA)  
 2/1 1314 tlk, IN mx, fair (Ross-ON) 1/14 1412 IN mx, sig  
 peak at 1405, SIO=333 (Hart-MN) 2/1 2205 tlk/mx (Ross-ON)  
 1/14 2225 tlk, ment Indo, no ID so presumed (Orr-VA)

4780 DJIBOUTI RVVD 1/30 0303 Koran, poor w/utes so LSB. Tlks,  
 vcls, slightly better 0315 (Clark-ON)

4785 AZERBAIJAN R Baku 1/12 0330 RS ID, Muslim mx (Lawrence-NY)

4785 COLOMBIA Ecos del Combeima 1/2 0013 live swearing in of new  
 Tolima governor & cabinet (Durdan-GA) 1/13 1127 fast paced  
 nx from Super net, ID, ads (D'Angelo-PA)

4788t VIETNAM Gia Lai Kon Tum BS 1/14 2233 in vern & VT, lcl mx,  
 more tlks to 2258 fade, fair to poor (Yamada-JAPAN)

4789.7 IRIAN JAYA RRI Fak Fak 1/26 1240 tlk, choral interlude, peak  
 1250 EZL mx (Clark-ON)

4790 PERU R Atlantida 1/11 0345 ID. LA mx, 0411 anthem (Ervine)

4790 UNID 1/24 0415 AR vcls, tlk in lang (Durdan-GA)

4795 CAMEROON CRTV 1/27 0500 EG ID //5010 (Tabatowski-IN) 2/2  
 2139 FR discuss, fair to good (Klinck-NY) ~~1/13 2203~~ oops

4795 ECUADOR LV de los Caras, 1/15 0050 rel, ID, nx (Durdan-GA)  
 1/12 0225 class & pop mx (Ervine-TX)

4800 GUATEMALA R Buenas Nuevas 2/1 0205 marimbas, orch, ID (Jordan)

4810 SOUTH AFRICA R Orion 1/12 0136 ID, Jimmy Buffett, Nat King  
 Cole, etc (Boulden-CA) 2/4 0145 ID, rock mx, wx (Lamb-NY)  
 1/21 0235 Sinatra, EZL, SIO=333 (Prodge-MI) 1/27 0244 pops,  
 AK anmt R Suid Afrika, R Orion 0300 (Klinck-NY) 1/13, 2311  
 tlk abt driving thru storm, "The Look of Love," tlk (Hart-MN)

4820 HONDURAS HRVC 2/3 0130 rel tlks, ID, "Back to God Hour"  
 (Jordan-PA) 2/4 0157 ID, "I Started a Joke" in SF, rel  
 (Lamb-NY) 1/4 0200 rel, good mx (Ervine-TX) 1/3, 0445  
 rel, exc (Cox-OR)

4820.8 PERU R Atahualpa 1/26 0945 "Musica de Nuestra Tierra" &  
 "Amanacer Andino" slogans (Durdan-GA) 2/1 1026 ID (Klinck)

4824.4 PERU LV de la Selva 1/25 1125 birthday greet, rap, ID  
 (Durdan-GA)

4825 TURKMEN Ashkhabad 1/30 0406 GM tlk, "Only You," folk mx,  
 ID 0415 in RS, nx, speech, orch (Jordan-PA)

4825 UKRAINE R Kiev 1/15 0309 feature, addr, GM 0315 (Lamb-NY)

4830 VENEZUELA R Tachira 1/24 0000 folk mx, ID (Peck-NY) 1/4  
 0230 mx pgm (Ervine-TX)

4832 COSTA RICA R Relejo, 1/5 0508 mx pgm (Ervine-TX) 1/3 0640  
 ID, singing (Hart-MN) 1/22 0730 Yellow Polka Dot Bikini

4832 in SP (Boulden-CA) 2/1 0918 IDs, lcl mx (Klinck-NY) 1/13  
 1143 nx, ads //6005, fair (D'Angelo-PA)  
 4835 GUATEMALA R Tezulutlan 1/2 0120 marimbas, good (Cox-OR)  
 1/6, 1117 marimbas, tlk, ID, pgm abt Epiphany (Lamb-NY)  
 4835 SARAWAK RTM Kuching 1/14 1215 tlk in lang, ment Malay,  
 1228 ID (Lawrence-NY) 2/2 1324 Koran, anmt, mx (Clark-ON)  
 4845 BOLIVIA R Fides, 2/1 0250-0303\* mx, anmt, ID 0300 (Jordan-PA)  
 4845 GUATEMALA R Kekchi 1/5 0245-0305\* rel, ID at s/off (Alex)  
 1/16 1130 NA, ID, into lang, rel (Durden-GA) 1/6 1135 tlk  
 over mx, IDs, folk mx (Lamb-NY)  
 4845 MAURITANIA ORTM 1/12 0645 FR nx, lcl mx, fair (Cox-OR)  
 1/22 0745 AR mx, tlk, Koran, no ID so presumed (Boulden-CA)  
 1/26 2307 AR tlk, mx, fair (Klinck-NY)  
 4845 UNID 1/25 0420 prayers, string instls, tlk lang (Ervine-TX)  
 4848.7t ZAIRE R Bukavu 2/9 0403 mx, FR tlks, faded 0452 (GP)  
 4850 CAMEROON CRTV Yaounde 2/2 2120 FR/lang hilife, good (Klinck)  
 4850 MONGOLIA R Ulaanbaator 1/26 2255 vcls, TP 2300, nx, long  
 tlk, class mx 2321 //4995 (Clark-ON)  
 4850 UZBEKISTAN Tashkent 2nd lgm 2/3 0214 ID, RS pgm (Johnson-MD)  
 4850.5 ECUADOR R Luz y Vida 1/25 1135 rel, ID, QTH (Durden-GA)  
 4855.8 SUMATRA RRI Palembang 2/7 2255 instl, SCI, Jak nx (GP)  
 4860 CIS RM 2/3 2203 EG //4795 (Johnson-MD)  
 INDIA AIR Delhi 2/2 0124 IS, ID, nx (Clark-ON) 2/1 1318  
 vcls & strings blasting in, lcl tlk (Ross-ON)  
 4863.5 MOZAMBIQUE RM 2/9 0318 //3210.5 (GP)  
 4863.9vt ZAIRE R Bukavu 1/12 2145 Afro drums/vcl, FR anmt (Clark-ON)  
 4870 BENIN ORTB 2/2 2125 FR tlk, ID, fair (Klinck-NY)  
 4870p SRI LANKA SLBC 1/18 1258 subcont mx, TP, tlks (Clark-ON)  
 4874.6 IRIAN JAYA RRI Sorong 1/26 1140 EG tlk w/teacher (Clark-ON)  
 4875 BOLIVIA La Cruz del Sur 1/29 2349 rel lang, call in, ID (Durden)  
 4875 BRAZIL, Super R, 1/4 0035 chorus, echo anmt, tent (Flynn-OR)  
 2/1 0640 ID jingles, pops (Lamb-NY)  
 4875 CHINA Vo Jinling 1/6 1203 tlk, "I Just Called to say I Love  
 You," Oriental mx (Ervine-TX) 1/15 1215 CH mx, ID (Tabatow)  
 4881t PERU R Nuevo Mundo 1/14 0959 OA mx, poor (Field-MI)  
 4881.2 IRIAN JAYA R Suara Kasih Agung 1/18 instl, anmt 1201\* (Clark)  
 4885 BRAZIL RC do Para 2/4 0209 ID, echo anmt, pops (Lamb-NY)  
 4885 COLOMBIA Ondas del Meta 1/26 1110 mx, ID, speech (Ervine-TX)  
 4885 UNID sev nites 0700-1400 Afr vern & PT, mx, rel (Ervine-TX)  
 4890 PAPUA NBC 1/25 0820 EG tlk ID, Traci Chapman (Cox-OR) 1/24  
 0905 EG natl nx, good (Maruo-JAPAN) 1/17, 1230 ID, John  
 Cougar, fair (Tabatowski-IN) 1/15 1240 ID, nx, mx (Hart-MN)  
 2/1 1305 pop mx blasting in (Ross-ON) 1/17 1315 EG ID,  
 Lionel Richie (Durden-GA)  
 4890 SENEGAL ORTS 1/15 0555 IS, ment Senegal, call to prayer (Hart)  
 2/1 0657 Afr mx, IS, ID, Koran (Lamb-NY) 1/26 2315 FR mx,  
 anmts, fair-good (Klinck-NY)  
 4895 COLOMBIA LV del Rio Arauca 2/4 0245 jingle ID, nx (Lamb-NY)  
 1/17 0245 LA mx, CW QRM (Ervine-TX)  
 4902 SRI LANKA SLBC 2/2 0030 tent w/tlks (Ross-ON) 2/3 2332, I  
 had to leave but Cedric hrd 0100 too (Clark-ON)  
 4904.6 CHAD Rdf Nat 1/1 0430 FR IS, NA, ID, sked (Durden-GA)  
 1/9 0440 instls, tlk, QRM (Frodge-MI) 1/12 0511 ID, ment  
 N'Djamena, pops, dedications (Lamb-NY) 2/2 2131 FR tlk  
 (Klinck-NY) 2/5 2320 ID, nx (Tabatowski-IN)  
 4905 BRAZIL R Religio Federal 2/6 2351 fair w/het (Orr-VA)  
 4905 CHINA CPBS 1/7 2231 EG lesson //6890, 4800, 7770 (Brandi-NJ)  
 2/2 2235 tlks, no //s found (Alexander-PA) 1/17 2235 EG  
 lesson, TP, ID, nx, strong (Orr-VA)  
 4908 PERU R Tawantinsuyo 2/9 0011 ID after song (GP) 2/3 1025  
 Folklore mx pgm, ID, ad Cusco lottery, nx (Durden-GA)  
 4909.8 ZAMBIA RZ 1/24 0400 lang "R One Lusaka" Afr mx, nx (Durden)  
 1/17 0416 Afr pops, "R Zambia" TC, mx (Orr-VA)  
 4915 BRAZIL R Anhanguera 1/13 0723 pops, ID, jingles, ads (Lamb-NY)  
 4915 GHANA GBC 2/2 2125 lang tlk, FR ID 2130, mx (Klinck-NY)  
 1/25 2305 folk mx, fading (Peck-NY)  
 4915 PERU R Cora tent 1/11 0127 mx, anmts (Karcheski-MA) 1/17

4915 0430 ID, pops, fair (Tabatowski-IN) 1/1 1045 nx, ID, march  
animal sounds, choral & folk mx (Lamb-NY)

4920 AUSTRALIA VLM4 1/25 0830 EG "My Old Kentucky Home" (Cox-OR)

4928.6 UNID 12-1300 central or east Indo w/mx, anmts, help! (Clark)

4934 CHINA unid, 1/27 1224 CH tlc //4975 (Durden-GA)

4935 PERU R Tropical 1/27 1040 OA mx (Field-MI)

4939.6 VENEZUELA R Continental 2/1 0930 ID, ment DX pgm "America  
en Antena" farm pgm (Durden-GA) 2/6 0325 ID, lively mx (Jordan)

4940 CIS RN 1/19 0211 EG mailbag (Boulden-CA)

4950 ANGOLA RN 1/31 2150 PT tlc, hilife, nx, ID (Lawrence-NY)

4950 SARAWAK RTM Kuching 1/16 2250 CH vcls, ID (Orr-VA)

4955 BRAZIL R Marajoara 1/12 0822 "O Show da Cidade", ID (Durden)

4960.7t ECUADOR R Federacion 1/24 0022 ballad, tent ID (Peck-NY)

4964.5 BOLIVIA R Juan 23 2355 Elton John, full ID to 0005\* (GP)

4970 VENEZUELA R Rumbos 1/29 0330 upbeat mx, tlc, sports (Jordan)  
2/8 0425 ID, salsa mx, tlc, fair (Carson-OK) 2/1 0605\*  
after EG ID, req rpts to Box 2618 Caracas, \$1 for QSL, next  
FR anmt (Berg-MA)

4976 UGANDA RU 2/9 0350 lang not //5026, both //0403 EG nx (GP)  
1/1 0408 EG nx, ID, anmts (Durden-GA) 1/28 0410 EG nx  
//5026, finally 0515 fade (Clark-ON)

4990 INDIA AIR Madras 2/7 0000 Tamil ID, nx (Orr-VA)

4991 PERU R Ancash 1/17 0405 huaynos, TC, ID (Orr-VA) 1/3 0450  
OA mx, ID, s/off amat 0501 (Durden-GA)

4992.8p SULAWESI RRI Gorontalo 1/18 1302 Jak nx //4853.4 (Clark-ON)

4995 MONGOLIA RU 1/19 1431-1500\* MG lcl mx, anmt, NA (Yamada-JAPAN)

4996 PERU R Andina 1/26 1045 "Especial de los Domingos" (Durden)

5003.5 RIO MUNI RN Bata 1/2 2150 pops, s/off, Nice ID NA (Durden-GA)

5005 NEPAL RN 2/8 1211 tlc, 4 TP 1215, finally 1245 ID (GP)  
1/11 1345 subcont mx, nx, gone by 1418 (Hart-MN)

5005 SARAWAK RTM Sibu 1/26 2231 anmt, mx, buried by ute (Clark-ON)

5009.3 MADAGASCAR RN 1/30 0322 rock, FR amat, 0330 ID, nx (Clark-ON)

5010 CAMEROON R Garoua 1/18 1735 Afro pops, poor (Maruo-JAPAN)

5010y ECUADOR Esc Radiofonicas Pop 1/14 0000 ID, Andes mx (D'Angelo)  
1/31 0959 Quechua tlc, ID (Johnston-KY) 1/25 2330 ID, mx  
good (Tabatowski-IN)

5010 SINGAPORE SBC 1/24 2302 EG nx //5051.9 (Clark-ON)

5015 PERU Estacion Tarapoto 1/21 1010 "Show de la Apertura" ID,  
birthday greet, strong at first, gone by 1025 (Durden-GA)

5025 BENIN R Parakou 1/18 2146 FR hilife, ID (D'Angelo-PA)  
1/31 2153-2200\* vcls, instl, ID, "bye-bye" anthem (Ross-ON)

5025 BHUTAN BBS 2/8 1245 lang subcont mx behind Rebelde (Lawrence)  
2/1 1249 vcls mixing w/Rebelde, tlks (Ross-ON) 1/30 1323  
nx, instls, good (Clark-ON) 1/13 1334 tlc, read list, full  
EG ID (Cox-OR) 1/8 \*1415-1455 EG nx, full ID (Maruo-JAPAN)

5030 ECUADOR R Catolica Nac 1/6 0151 folk mx, ID, IS (Lamb-NY)

5035 BRAZIL R Aparecida 1/26 0030 ID, mx, poor (Tabatowski-IN)

5035 CENT AFR REP RTV 1/31 2044 FR ID, Afr mx, nx (Lamb-NY)

5040 ECUADOR LV del Upano 1/6 0200 choral, ID, addr, phone (Lamb)  
1/22 0301 ID & s/off (Tabatowski-IN)

5040 RUSSIA R Ala 1/5 0240 RS folk trads, guitar (Lawrence-NY)  
1/5 0458 folk mx, ID (Alexander-PA) 1/17 2141 mx, ID (Yamada)

5041.2 ANGOLA EP Benguela 1/31 2143 drum/vcl, ment Angola (Ross-ON)

5045 BRAZIL R Cult Para, 2/4 0305 bossa novas, ID, FC (Lamb-NY)

5046.4 JAVA RRI Yogyakarta 1/21 1408 Indo pops (Maruo-JAPAN)

5047 TOGO RTV 1/21 2144 FR reggae & Afr mx, ID, nx (Lamb-NY)

5052 SINGAPORE SBC 2/1 2222 oldies mx, EG DJ (Ross-ON) 1/14  
2243 EG pops, ID, TC (Orr-VA)

5055.4 IRIAN JAYA RRI Nabire 1/19 1306 Jak nx, anthem, vcls (Clark)

5056 FRENCH GUIANA RFO Cayenne 1/12 0655 FR reggae, nx, tent ID  
(Lawrence-NY)

5066 ZAIRE R Candip 2/9 0327 //3390 drum IS (Johnson-MD)

5070 CLAND Seda'ye Mojahed 2/2 0233 AR tlc, mx, sw freq (Alex)  
2/7 0236 nx, anthem, sw to 5060, canned ID (Orr-VA)

5075 UNID 1 01 0420 AR sound lang, ute QRM (Durden-GA)

5260t KAZAKHSTAN R Alma Ata 1/21 0110 folk mx (Peck-NY)

5440 CHINA Xinjiang PBS 2/2 0125 Kazakh tlc, CH mx, weak (Alex)



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# International Band Loggings

- 335nf USA WWCN Nashville in EG 0320, Dr.Scott relig tlk (Unruh WA 1/2) Repl 7520?  
3695 INDONESIA RRI Banjarmasin(t) in IN 1026, IS on oboe?, primitive instrum mx, nx?, severe QRM by BBC 1055, more mx 1105, went past 0900 WRTH s/off (Clark ONT 1/12)
- 370 NICARAGUA R Miskut in SP 0317, tlks, mx bridges, ID, fqys, pips (Jordan PA 1/16)  
375 ANTIGUA BBC relay in EG 0605, nx re atrocities in Yugoslavia (Unruh WA 1/18)  
375 SO.KOREA RK in EG 1602, nx, signal clobbered by BBC 1613, f (Cox OR 1/20)  
005 GERMANY RIAS in GM 0615, mx, tlks, ID 0629, nx, f (Brandi NJ 1/1)  
015 CANADA R Austria relay in EG 0538, cmntry on cost of living (Ervine TX 1/5)  
045 GERMANY Deut Welle in EG 0505, nx, ID, "European Journal" (Hart MN 1/21)  
055 CZECHOSLOVAKIA R Prague in FR 0720, "InterPgm", mx, nx, ID, g (Johnston KY 1/10)  
060 ARGENTINA RN de Argentina in SP 0133-0150, nx, ID's, g (Cox OR 1/3)  
0698 INDONESIA RRI Jayapura in IN 1259, lcl pops, nx?, CFRX QRM, //47747 (Clark 1/25)  
090 LUXEMBOURG RL in GM 0858, Boy George mx, RTL Radio ID, nx (Lamb NY 1/24)  
100 ICELAND Reykjavik in IC 0720, lite US pops, //3295, 9265 (Alexander PA 1/19)  
110 MOROCCO VOA Tangier relay in EG 0623, VOA Saturday Morning, Top 10 (Lamb 1/18)  
135 BRAZIL R Aparecida in PT 0055, vocals, ID, slide whistle ID, f (Flynn OR 1/15)  
150 KENYA KBC in SH 2055, mx, ID "KBC Nairobi" 2059, NA 2111\* (Johnston KY 1/10)  
180 CYPRUS Cyprus BOC via BBC relay 2215, DJ & mx, //7125, 9770 (Lawrence NY 1/12)  
210nf JAPAN RJ in EG \*0300, ID, cmntry, test?, //5960 (Hardester NC, Galgano NY 1/20)  
210 ITALY Euro Christ R in EG 0659, relig tlk, IS, ID, into IT 0717 & GM 0733, tlks, organ mx (Lamb NY 1/19, D'Angelo PA 1/5) ED: Only 7 kw per WRTH!
- 300 TAIWAN WYFR Family R relay in Mand 2220, tlk, ID, IS, relig mx (Alexander 1/17)  
570 MYANMAR Def Poroes BC in lang 1246+, tlks, charming domestic vocals hosted by YL, s/off 1330 w/usual mx theme (Clark ONT 2/2, Field MI 1/13)
- 140 AUSTRALIA RA in EG 1140, nx, cmntry on N Australian life, g (Klinck NY 1/24)  
1555nf JORDAN JRT Amman in AR \*1600, ID's, nx, tlks, fanfare, ME mx, chants, Ham QRM, F-p (Treibel WA 1/23) ED: not listed on this fqy since 1988.
- 185 TURKEY VOT in EG \*2300-2350, preview, nx, lcl mx, //9445 (Alexander PA 1/10)  
190 YEMEN Rep Yemen R in AR 0320, AR mx, NA & ID 0330, intl nlx (Lawrence NY 1/28)  
7215 UNITED ARAB EMIRATES Abu Dhabi in EG 2334, mailbag, req rpts (Klinck NY 1/26)  
7240 AUSTRALIA RA in EG 1155, ID's, mailing address for rpts, f (Klinck NY 1/24)  
7250 VATICAN ST VR in Latin 0634, Kyrie of Latin Mass, //6245, 15210 (Lamb NY 1/26)  
7270 POLAND R Polonia in EG 2200, nx, mx, ID 2231, f (Tabatowski IN 1/26) in EG 0655, LBX, pop mx, new ID, feature on Polish gay community, nx, //6135 (Lamb NY 1/18)
- 7270nf? SEYCHELLES FEBA in Tamil 0150, EG ID 0159, f (Cox OR 1/3)  
7270 SOUTH AFRICA RSA in EG 0404, nx re So African region (Westdal CA 2/13)  
7275 LIBERIA ELBC in EG \*0645-0725, NA?, ID, prayer & relig sermon (D'Angelo PA 1/5)  
7355 ALASKA KNLS in EG 1322, ID, Bee Gee's "Holiday", f (Tabatowski IN 1/24)  
7365 ALASKA KNLS in EG 1211, EG/RS lang lesson, ID, g (Klinck NY 1/24)  
7465 ISRAEL Reshet Bet HS in HB 0110, country mx, tlk, //11588, 11605 (Peck NY 1/24)  
7475 TUNISIA RTVT in AR 2120, folk mx, flute, hand drum, YL singing (Peck NY 1/11)  
7504 CHINA CPBS in CH 0015, tlks w/peppy CH folk mx, ID 0020 (Peck NY 1/21)  
7550 SO KOREA RK in SP 2115, orch IS tune, ID, tlk (Peck NY 1/11)
- 9115usb ARGENTINA R Continental feeder in SP 0050, excited sports? tlk, g (Cole TX 2/7)  
9420 GREECE VOG in GK 0032, rock mx/vocals, ethnic mx interspersed (Levison PA 1/22)  
9495 NO MARIANAS KFBS Saipan in CH? 1413, relig tlks by M & YL, mx, f (Klinck 1/18)  
9505 YUGOSLAVIA RY in EG \*2200-2228\*, IS, ID, billboard, nx, cmntry (Jordan PA 1/25)  
In EG 2210, nx, mx, list of fqys, ID (Boulden CA 1/25)
- 9525 POLAND R Polonia in FR \*1658, Chopin etude IS, sig very fluttery (Flynn OR 1/14)  
9530 SPAIN REE in SP 0400, pips, nx bloc, cmntries on Lat Am, g (Carson OK 2/8) in EG 0105, ID, nx, mx, press review, wx, g (Cole TX 2/7)
- 9530 NO MARIANAS KHBI Saipan in EG 1423, disc on world morality, ID (Klinck NY 1/18)  
in EG 1413, tlk re fundamentalist movement in Tunisia, ID (Hart MN 1/22)
- 9535 SUDAN R Ondurman in AR 1450-1625, AR tlk & mx, pips, into EG 1500 w/ID, nx(?), QRM from R Japan 1525 (Alexander PA 2/2, Flynn OR 1/19, Durden GA 1/15)  
9540 SUDAN R Ondurman in AR \*1700, IS, nx?, tlks, chants, f (Treibel WA 2/6) NOTE: Apparently Ondurman shifts up 5 mhz for this xmsn (see 9535 listing above)  
9535 SRI LANKA R Japan relay in HD 1629, ID, tlk in lang, f (Klinck NY 1/26)

- 9545 MEXICO YEFT LV de Vera Cruz in SP 1602, Lat Am mx, nx, ID (Ervine TX 1/17)
- 9560nf AUSTRALIA RA in IN 0855, ID, nx, //15530, probably repl 11910 (Treibel WA 2/8)  
ED: Last time I logged RA on 9560 was in 1969.
- 9560 BULGARIA R Sofia in EG 1830, ID, nx, Bulgarian holiday customs (Durden GA 1/1)
- 9570 SO KOREA RK in EG 1430, discons of KR life, mx bridges, f (Klinck NY 1/18)
- 9580 YUGOSLAVIA R Skopje in Macedonian 0215, folk dances, gypsy mx, IS (Peck NY 1/26)
- 9585nf ECUADOR HCJB in GM \*0600, ID, fqys, Andean mx, tlks (Jordan 2/1) in EG 0750-0830\*  
"Hello Friends", mailbag, U.S. rx, TC, into lang 0830, vg (Jordan PA 1/26)
- 9600 UNITED KINGDOM BBC London in EG 0402, nx, "Good Book", features (Carson OK 2/8)
- 9600 MEXICO R Unam in SP 0300, ID, tlk, relig service (Oliver TX 1/29, Cole TX 2/7)
- 9605 UNITED ARAB EMIRATES Abu Dhabi in EG 2325, ID, nx, features, g (Carson OK 2/1)
- 9605 CZECHOSLOVAKIA R Prague in EG 1800, ID, nx, hilites of '91 in CZ (Durden GA 1/1)
- 9615 PHILIPPINES R Veritas Asia in EG/CH \*1433, ID in EG, into Mandarin (Durden 1/16)
- 9630 INDIA AIR in Pushtu 0215, IS, co-channel with Spain, tlk by YL, p (Peck NY 1/21)
- 9650 PORTUGAL D Welle relay in CZ \*0530, IS, ID, nx, mx, tlks, p (Jordan PA 2/1)
- 9655 SWAZILAND TWR in EG/Vern \*0256, ID in EG, tlk in Vern 0300, f (Alexander PA 1/10)
- 9655 THAILAND RT in EG 2357-0037, lite mx, ID, nx (Alexander, D'Angelo PA, Durden GA)
- 9700 GREECE VOA relay Kavalla in EG 1655, EG lang lesson, ID, p (Klinck NY 1/26)
- 9705 BRAZIL R Nacional Rio in PT 0018, LA mx, tlk, ID, ment Marajoara (Lamb NY 1/28)
- 9705 PORTUGAL RPI in PT 0248, "Challenge of 92", "Magazine" (Westdal CA 2/13, Lamb NY)
- 9720 SRI LANKA SLBC in EG 1230, IS drums, ID, ezl mx, relig tlk (Lawrence NY 1/18)
- 9735 PARAGUAY R Nacional in SP 2316, tlk w/frequent ment of R Nacional (Hart MN 1/15)  
in SP 1030, tlk w/mx bridges, many clear ID's, f (Klinck NY 2/1)
- 9740 SINGAPORE BBC relay in EG 1451, 2 M's tiking abt Wimbledon, f (Klinck NY 1/18)
- 9750 UKRAINE R Kiev in EG 0309, relig choral mx, cntry, ID, g (Levison PA 1/7)
- 9750 ARMENIA R Yerevan in EG 0353, AR folk mx, tlk re AR's in Olympics, ID (Peck 1/24)
- 9755 MONACO R Monte Carlo in AR 0401, nx, tlk, ID, abrupt off 0415 (Cole TX 2/7)
- 9765 MALTA V of Medit in EG 0600, ezl mx, ID's (Carson OK 2/8, Tabatowski IN 1/27)
- 9800 RUSSIA R Rossiya in RS 0650, ID's, tlks, IS, nx, //11990, 15255 (Lamb NY 1/8)
- 9830 CROATIA Hrvatska R Zagreb in CR 2150, lite mx, 3 long tones on hr, ID & nx in EG,  
(Alexander PA 1/10) in CR 0003, C&W+lcl mx, g, //7240 (Klinck NY 1/31) ED: 10kwl
- 9835 HUNGARY R Budapest in EG 0308, press review, DX nx, g, //11910 (Carson OK 2/6)
- 9839f VIETNAM V of Vietnam in EG 1330, poor sig but clear ID hrd (Tabatowski IN 1/24)
- 9885 SWITZERLAND SRI in EG 9885, SW banking & money laundering, f (Carson OK 2/6)
- 9885 SAUDI ARABIA BSKSA in AR 2215-2301\*, instr mx, ID 2230, NA, g (Cox OR 1/11)
- 9890nf USA KGEI San Fran in RS 0400, relig pgn, ID, move from 9615? (Treibel WA 2/1)
- 9915 UNITED KINGDOM BBC London in EG 0331, "The Vintage Chart Show" (Tucker GA 2/1)
- 9950 INDIA AIR in HD/EG 2015, remote parade coverage, //7412, 11620 (D'Angelo PA 1/26)
- 11040 CHINA CPBS in CH 0222, CH folk song, tlk, sound of baby crying (Peck NY 1/21)
- 11100 CHINA CPBS Taiwan Svce in CH 1320, tlks, arias, ID(p), nx? (Jordan PA 1/28)
- 11335 NO KOREA R Pyongyang in EG 0040, tlk, orch march mx, ID 0042 (Peck NY 1/22)
- 11500 CHINA R Beijing in EG 2039, ID, CH lessons, class mx (Peck/Bianco NY, Davis OH)
- 11580 TAIWAN WYFR Fam R relay in EG 2216, nx, CH lesson, mx, adrs (Ervine TX 1/14)
- 11620nf VATICAN ST VR in PT 0058\*, off w/bells IS, to SP 0100 (Treibel 2/8) from 11625
- 11620 INDIA AIR in EG 2200, nx, rpt on parade, ID, cntry, mx (Ervine TX 1/14, Peck NY 1/26, Tucker GA 1/12, Boulden CA 1/11)
- 11685nf? RUSSIA R Ala in RS 1230, folk mx, guitar IS, ID, s/off 1241, f (Lamb NY 1/6)
- 11700 PORTUGAL IBRA relay in langs 1915, folk mx, tlk, nx, IS, ID (Jordan PA 1/18)
- 11700 NO KOREA R Pyongyang in EG 2300, mx, tlks, ID (Hart MN, Prodge MI, Tucker GA)
- 11705 SWEDEN RS in EG 2330, help to Estonia in fuel crisis, vp (Unruh WA 1/20)
- 11720 BULGARIA R Sofia in EG 0455, collectives & unemployment in BG, nx (Carson OK 2/6)
- 11720 NETHERLAND ANTILLES RN relay in EG 0328, ID, write for sked, nx (Unruh WA 1/2)
- 11740nf IRAQ R Baghdad in AR 2240-2316\*, AR tlk & mx, Koran, NA (Alexander PA 1/25)
- 11765 BULGARIA R Sofia in EG 0602, BG lifestyles, pop mx, abrupt off 0615 (Carson 1/19)
- 11795 UNITED ARAB EMIRATES Dubai in AR 1800, nx, into chanting 1803 (Oliver TX 1/8)
- 11800 FRANCE RFI in FR 0647, world nx, ID, time pips 0700, g (Robertson CA 2/6)
- 11805 BRAZIL R Globo in PT 0832, ID, pop mx, annnts, f (Lamb NY 1/3)
- 11805 GUAM KTRW in EG 0859, IS, ID, relig mx, Bible readings, f (Lamb NY 1/3)
- 11810 JORDAN RJ Amman in AR 1359, instrum mx, tlk by 2 M's, TC, ID (Hardester NC 1/12)
- 11815 JAPAN RF Tokyo in EG 1740, revival of street performance w/monkeys (Unruh 1/21)
- 11815 BRAZIL R Brasil Cent in PT 0816, pop mx, annnts, ID, jingles, f (Lamb NY 1/3)
- 11827 FRENCH POLYNESIA RFO Tahiti in FR 0440, island mx, nx, f (Carson OK 2/8) in FR 0745, island mx (Boulden CA 1/10) in FR 1045, rock mx, ID, //15171 (Lawrence NY)
- 11830nf IRAQ R Baghdad in AR \*2317-0115\*, NA, ID in EG, //15455, lcl mx, covered by OAS  
from \*2345-0029\*, sked, closing NA, 15455 not hrd (Alexander PA 1/25)
- 11840 CUBA R Moscow relay in EG 1440, pgn re "Avant Garde", ID, sked, mx, world nx,  
"Listeners' Mailbag", "Audio Disc Club", g (Jordan PA 1/17)

11880 SOUTH AFRICA RSA in EG 1740, IS, ID, freqs, ID (Durden GA 1/12, Unruh WA 1/21)  
 11895 NETHERLAND ANTILLES RN relay in EG 0740, politics in Algeria, f (Carson OK 1/16)  
 11910 AUSTRALIA RA in EG 1621, ID, sports (Cole TX) in EG 1900, ID, nx, wx (Durden GA)  
 11915 MALTA D Welle relay in GM 0105, nx, ID, Europa rpt, IS, choir (Lamb NY 1/15)  
 11920 MOROCCO R Marocaine in FR 2000, ID, nat'l nx, EG/AR pop selections (Durden GA)  
 11930 NORWAY RNI in EG 0000, ID, nx, exc (Boulden CA 1/26) ED: EG on RNI Sundays only.  
 11965 UNITED ARAB EMIRATES Abu Dhabi in AR 1815, AR mx, drama, g (Johnston KY 1/18)  
 12005 TUNISIA RTV Tunisienne in FR 0553, nx, cmntry (Ervine TX 1/18)  
 120247nf GUAM KTRW in IN 2228, relig mx, ID 2230, exc (Oliver TX 1/21)  
 12085 SYRIA R Damascus in AR 2040, mx, nx (Orenstein NY) in SP 2319, ID, AR mx (Durden)  
 13700nf CUBA RHC Havana in 0326, LA mx, IS, ID, nx, p (Tucker GA 1/29) in EG 0330-0430\*,  
 world nx roundup, polit cmntry, "Spotlight on the Americas", vg (Jordan PA 2/8)  
 15110 INDIA AIR in EG 2346, features, lcl instrumtlis, ID, //11745 (D'Angelo PA 1/27)  
 15120 NEW ZEALAND RNZ in EG 1925, polit tlk, nx, wx for Pacific, ID (Orenstein NY 1/26)  
 15150 MADAGASCAR R Nederland relay in EG, nx analysis, ID 1451, f (Hart MN 1/14)  
 151546 INDONESIA RRI Jakarta in IN 2300, nx?, chorals, ID (Treibel WA 2/5)  
 15160 PHILIPPINES VOA relay in EG 1407, nx re JP trade moves in US Cong (Hart MN 1/24)  
 15170nf CHINA R Beijing in SP 2005-2056\*, New Years pgm (Ervine TX) ED: Xntr site unknown  
 15205 ALGERIA RTVA in AR 1900-2000+, nx?, ME vocals, recitations, f (Jordan PA 1/26)  
 15215 ALGERIA RTVA(t) in Kabyll? 0320, gypsylke folk mx (Peck/Bianco NY 1/11)  
 15235 UNITED KINGDOM BBC London in Serbian \*1130, IS, NA, ID, nx, f-g (Jordan PA 1/25)  
 15260 CANADA BBC relay in EG 1615, ID, rpt on assaults on UK police, g (Cole TX 2/6)  
 15290 PHILIPPINES VOA relay in EG 2327, nx, VOA Monday Morning, f (Lamb NY 1/26)  
 15340 CUBA RHC Havana in Quechua 0035, nice huayna mx, tlk on Cuba (Peck NY 1/24)  
 15350 SAUDI ARABIA BSKSA in AR 1800, ID "Huna Riyadh", nx, Saudi mx, exc (Durden GA)  
 15350 LUXEMBOURG RL in EG 1830-1900, ID 1841, pop USA mx, f (Tabatowski IN 1/23)  
 15360 SINGAPORE BBC relay in EG 0148, "84 Charing Cross Road", IS, ID, nx (Lamb 1/19)  
 15420 CYPRUS BBC relay in EG 1738, African current events, s/off 1744\* (Tucker GA 1/22)  
 15505nf KUWAIT RK in AR 2250-2311\*, ME mx, ID, nx, chants (Treibel WA 2/17) ED: Actually  
 return to pre-war frequency. Last hrd December 1989 at this QTH.  
 15530 FRANCE RFI in EG 1630, "Club 95" pgm, FR elections, mailbag (Flynn OR 1/19)  
 15640 ISRAEL Kol Israel in Yiddish 1744, folk songs, ID 1745, tlk re PLO (Peck 1/26)  
 15670 CHINA CPBS Kunming in lang 0023, slo folk song, tlk, NA, IS 0030 (Peck NY 1/22)  
 17555 PAKISTAN RP in Urdu 0559-0630\*, "Typewriter Song", ID's, NA, f (Lamb NY 1/10)  
 17705 CUBA RHC Havana in EG/FR 2000, ID, nx, "Dateline Havana", cmntry (Tucker GA 1/29)  
 17725nf LIBYA V of the Great Homeland in AR 2100, tlk, ME mx, g //15235 (Treibel WA 2/5)  
 17745 ALGERIA RTVA in EG 0300-0400, skeds, nx, cmntry, ID (Jordan PA 2/7) in PT 1900-  
 2101\*, tlks, pop mx, ID's (Jordan 2/2) in EG 1700\*, ID, nx, tlks (Jordan 1/28)  
 17785 INDIA AIR in Dari 0412, tlk, Indian film mx, ID 0430 "Injaw Delhi" (Peck NY 1/24)  
 17815 BRAZIL R Cultura Sao Paulo in PT 0206, bossa nova/samba mx, ID, f (Lamb NY 2/5)  
 17825 RUSSIA R Vladivostok in RS 0815, ID, 14 note IS played twice, tlks, songs, g  
 //7260, 7270, 9530 (Berg MA 1/25)  
 17830 HONGKONG BBC relay in EG 2324, Japan's role before WWII, nx, g (Hart MN 1/12)  
 17835 UNITED KINGDOM BBC London in Croatian \*1200-1215\*, IS, NA, ID, nx (Jordan 1/25)  
 17862v COLOMBIA RN in SP 0313, LA pops, IS, fsys, ID, nx (Lamb NY, Levison PA)  
 17890 SPAIN REE in SP 1607, nx, ID, g (Cole TX 2/13)  
 21465usb COSTA RICA RFPi in EG 0140, conf on world's female refugees (Carson OK 1/24)  
 21470 CYPRUS BBC relay in EG 1454, tlk re Mozart, ID 1459, f (Hart MN 1/14)  
 21580' PHILIPPINES R Pilipinas via VOA Tinang in EG 0304, Aquino speech, ID (Westdal CA)  
 21605 UNITED ARAB EMIRATES Dubai in EG 1622, nx, wx, ID, mx (Wolfson OH, Orenstein NY)  
 21635 FRANCE RFI in EG 1238, press review, Top 10 Countdown 1991 (Tucker GA)  
 21685 NETHERLAND ANTILLES RN relay in EG 1830, rpts on Afr issues, g (Cole TX 2/13)

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 CLANDESTINE STATIONS  
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7020 V of the Broad Masses of Eritrea in lang 0413, ME type mx, //7490.4, both freqs  
 very weak so ID of station is presumed (Alexander PA 1/10)  
 7417 LV...Politico de Cubanos in SP 0130, ID's, patriotic mx, tlks (Karcheski MA 1/18)  
 74904 V of the Broad Masses of Eritrea in lang 0454-0510, definite Ethiopian mx, signal  
 too weak to catch certain ID (Brandt NJ 1/1)  
 15611 V of the Iraqi People in AR? 1955, AR mx, //9985, 17961 (Alexander PA 2/1)  
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Some really good loggings this month. Good work! However, a reminder to some contributors  
 that we need program details in order to justify including the logging in this column  
 (not just "nx" or "LA mx", for example) Be sure to indicate ID or //s. Otherwise, mark it  
 tentative. On the other hand, too much detail involves time-consuming editing. Catch 21!

# English Schedules

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Prepared 2/29/92 at 3:26 AM.

Thanks to A.Akad Cukurova (TRT), Michael Batchelor (CSM), Mike Fern (CA), Jonathan Marks (R Netherlands), Jon Klinedinst (PA) and Andy Sennitt (WRTH).

Last month the listings were mistakenly put in country order rather than start time order. I was being unfair to Eric Johnson (of Philadelphia) who has been formatting and printing this column since January, and it got by him. I was doing updates until late Friday evening, the day before the column is delivered to the publisher,

## Notes

**Lithuania:** Mike Fern writes that Radio Vilnius is looking for reception reports on its NA releases, and notes that US currency should not be sent in envelopes. It seems that the postal carriers are helping themselves. Mike, your fax telephone number embedded in the machine's TTI is no good; for several hours, I tried to send you a reply on a couple of your questions.

**Russia:** Thanks to a call from Jonathan Marks, I heard the new Radio Galaxy on the 17th and 18th of February, 20-23 on 9880, but the new station was gone on the 19th. According to a February 27 *Media Network* item, Radio Galaxy was pulled off the air by Radio Moscow's Frequency Division as the coverage was intended only for Moscow. Since then, negotiations have taken place and Radio

Galaxy should return in March. And Radio Moscow World Service will be renamed Radio Moscow International by June.

**Sri Lanka:** According to a February 27 *Media Network* item, on March 3 the Sri Lanka Broadcasting Corporation is starting a 30-minute service to wNA at 0415 and 2330 UT. The beam heading is 35 degrees, using a 30 kw on 19 m and 100 kw on 31 m.

**Vietnam:** The Voice of Vietnam has moved to its fall frequency of 15010 parallel to 9840. I measure the actual frequencies as 15009.12 and 9839.70). All three frequencies continue to be announced.

## In Closing

The Voice of Greece shuffled languages in the 19 UT release to Europe. At 1930 Iran's 15260 kHz gets buried by the BBC here. Iraq is back with English, but Kuwait is airing only Arabic. I caught up with the Voice of the Mediterranean with a good signal at 06 UT on 9765 kHz. On February 23 *DX Asiawaves* was still saying AWR Russia will start in March but no date is given. The R Moscow frequencies are the best of those observed here in mid-month, but expect more, perhaps significant, changes in March. Radio Yugoslavia was heard at the end of February airing commercials! We'll see you at the Winter SWL Festival in Kulpsville later this month.

## PC Software by W2XQ

Software for the SWL using the IBM-PC and compatibles: Receiver control programs for the *Japan Radio Company WRD-535* and *WRD-525* and the *Kenwood R-5000*, focusing on database management of the memories and more. The English Language SWBC schedules loads the VFO or memories of the JRC and Kenwood receivers and transceivers (9 in all). For information, send a business-size SASE or download the software catalog from the Pinelands RBBS (609-859-1910).

English Language Schedules  
By Start Time, Changes entered between  
1/25/92 and 2/28/92

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	2400	Canada	CFCX	6005								Canada	relay CFCF-600	1/27/92
0000	0030	Lithuania	R Vilnius	17690	17605	7400						NA		2/2/92
0000	0200	N Mariana Is	KHBI	17865	17555							Japan/eUSSR/seAs/Phi	355/270 deg#1 Sa-Su	2/13/92
0000	0100	Russia	R Moscow	21690	17655	17570	12045	9870	7295	7220	7150	World Service	#10 v Cuba -05	2/12/92
0030	0055	Belgium	BRT	9930								NA/SA		2/1/92
0030	0130	Iran	V of Islamic Rep of Iran	15260	9720	9022						NA		1/31/92
0100	1100	USA	WWCR/1	7435										1/31/92
0100	0200	Ukraine	R Kiev	17690	17605	9860	7400	7240	4825			NA/Eu		2/5/92
0100	0200	Russia	R Moscow	21790	21690	17655	17570	12050	12045	9750	7275	World Service		2/12/92
0100	0200	Russia	AWR Russia	11855								s&se&swAs	starts March 1992	2/1/92
0200	0400	N Mariana Is	KHBI	17865	17555							Japan/eUSSR/seAs/Phi	355/270 deg/Sa-Su	2/13/92
0200	0300	Russia	R Moscow	21690	17655	17570	13745	12045	7295	7275	7150	World Service		2/12/92
0300	0350	Germany	R Deutsche Welle	9770	9705	9640	9545	9535	6120	6085	6055	NA		2/27/92
0300	0400	Russia	R Moscow	21690	17655	17570	15470	13745	9540	7295	7150	World Service		2/12/92
0330	0400	United Arab Emirates	R Dubai	15435	15400	13675	11945					NA		1/29/92
0400	0615	Bulgaria	R Sofia	15160	11765	11720						World Service: NA/AI		2/28/92
0400	0600	N Mariana Is	KHBI	17780	17555							eAs/seAs/Phil	340/270 deg#2 Sa-Su	2/13/92
0400	0500	Russia	R Moscow	21690	17655	17570	15545	15470	13745	11975	9750	World Service		2/12/92
0445	0515	Sri Lanka	SLBC	15425	9720							wNA		2/27/92
0500	0600	Japan	R Japan	21610	17860	17825	17810	17765	15195			GOS/As/ME/NA/Oceania		2/23/92
0500	0600	Russia	R Moscow	21690	17655	15545	15280	13745	12055	11975	9450	World Service		2/13/92
0600	0800	N Mariana Is	KHBI	17780	17555							China/seAs/Phil	310/270 deg	2/13/92
0600	0800	Malta	V of the Mediterranean	9765										2/9/92
0600	0700	Russia	R Moscow	21690	17655	15545	15465	15280	12055	11975	9860	World Service		2/13/92
0700	0800	Japan	R Japan	21525	17860	17810	17765	15250				GOS/As/Oc/Eu/ME	#1 v Gabon	2/23/92
0700	0800	Russia	AWR Russia	11855								s&se&swAs	starts March 1992	2/1/92
0700	0800	Russia	R Moscow	21690	17655	15545	15520	15475	15470	15465	15280	World Service		2/15/92
0800	1000	N Mariana Is	KHBI	17555	15665							Japan/Aus/NZ	355/165 deg	2/13/92
0800	1000	USA	WSHB/1	13615								Aus	260 deg	2/13/92
0800	0900	Russia	R Moscow	21690	17880	17655	17610	17570	15545	15475	15465	World Service		2/15/92
0900	1000	Japan	R Japan	21610	17860	15270	11840					GOS/As/Oc/Eu		2/23/92
0900	1000	Russia	R Moscow	17880	17765	15545	15530	15470	15465	15175	13705	World Service		2/15/92
1000	1200	N Mariana Is	KHBI	17555	13625							China/Indon	310/240 deg	2/13/92
1000	1100	Russia	R Moscow	17880	17700	15475	15470	15465	12010	9875	9855	World Service	#10 v Cuba	2/15/92

1100	0100	USA	WWCR/1	15690															1/31/92
1100	1200	Russia	R Moscow	21785	17635	17600	15535	15475	15210	9875	9855	World Service	#10 v Cuba						2/13/92
1200	1300	China	R Beijing	15450	11660	11600	9715	9665				sPac/seAs/eNA							2/1/92
1200	1300	Russia	R Moscow	21785	17635	17600	15535	15520	15210	12025	9855	World Service	#10 v Cuba						2/12/92
1230	1300	Vietnam	V of Vietnam	15010	12020	9840						As							2/25/92
1300	1400	China	R Beijing	11660	11600	9715						Pac/seAs							2/1/92
1300	1355	Poland	Polish Radio Warsaw	11815	9525	7145	6135					Eu							1/31/92
1300	1400	Russia	R Moscow	21785	17635	17610	15550	15490	15210	13705	11840	World Service	#8 v Cuba 1330-						2/12/92
1300	1400	Russia	AWR Russia	11855								s&se&swAs	starts March 1992						2/1/92
1400	1500	China	R Beijing	15165	11815	7405						sAs/wNA							2/1/92
1400	1500	Japan	R Japan	11865	11815	9535						GOS/As/Am	#3 v Sri Lanka						2/23/92
1400	1600	N Mariana Is	KHBI	13625	9530							seAs/India/China	285/310 deg						2/13/92
1400	1500	Russia	R Moscow	17860	17655	17610	15535	15480	15210	13705	11840	World Service	#8 v Cuba						2/12/92
1400	1600	Malta	V of the Mediterranean	11925															2/9/92
1430	1500	England	BBC	17840								WS: NA/CA/Carib							2/8/92
1500	1600	China	R Beijing	15165	11815	7405						sAs/wNA							2/1/92
1500	1615	England	BBC	17840	9740							WS: NA/CA/Carib							2/8/92
1500	1600	Japan	R Japan	11865								GOS/NA							2/23/92
1500	1600	Russia	R Moscow	21785	21615	17655	17610	15480	15210	13705	11840	World Service	#8 v Cuba						2/12/92
1530	1538	Greece	V of Greece	17525	15565	11645						NA/Sweden	News/Eng ex Su						1/25/92
1600	1655	Poland	Polish Radio Warsaw	11840	9525	7285						Eu							1/31/92
1600	2200	USA	WWCR/2	17525															2/9/92
1600	1700	Russia	R Moscow	11840								World Service	#1 v Cuba						2/12/92
1630	1700	Portugal	R Portugal	21515								ME	M-F						2/13/92
1700	1800	Algeria	R Algiers	17745	9535							eAf/ME							2/13/92
1700	1800	China	R Beijing	11575	9570	7405						e&sAfr							1/31/92
1700	1800	Japan	R Japan	15210	11865	11815	7140					GOS/ME/Af/Am/As	#1 Sri Lanka						2/23/92
1700	1800	Russia	R Moscow	11840	9685							World Service	#1 v Cuba						2/12/92
1800	1827	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930					Eu							2/9/92
1800	2200	New Zealand	R New Zealand Int'l	15120								Pacific	move to 11735 Mar 2						2/21/92
1800	1855	Poland	Polish Radio Warsaw	9525	7145							Eu							1/31/92
1800	1900	Russia	R Moscow	11840	11745	9860	9685					World Service	#1 v Cuba						2/12/92
1830	2000	Bulgaria	R Sofia	15370	15160	11735	11720	9700	6035			World Service: Eu/Af							2/28/92
1900	1930	Japan	R Japan	11865	11850	9640						GOS/Am/Oc							2/23/92
1900	2000	Russia	R Moscow	11840	9860	9720	9710	9685	7170			World Service	#1 v Cuba   #4 1930-						2/12/92
1900	2000	Russia	AWR Russia	9835								s&se&swAs	starts March 1992						2/1/92
1902	1910	Greece	V of Greece	9395	7450							Eu	News/Eng ex Su						2/17/92
1930	1957	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930					Eu							2/9/92
1930	2030	Iran	V of Islamic Rep of Iran	15260	9022	6030						ME/nAf/Eu/eNA							2/9/92
2000	2100	China	R Beijing	15170	11715	9920	9440	6950				w&nAf/Eu	#1&2 v Mali						2/17/92
2000	2200	USA	WCSN	13770								Eu/ME	60 deg						2/13/92
2000	2200	USA	WSHB/1	15665								eNA/Eu	25 deg						2/13/92
2000	2100	Russia	R Moscow	11840	9860	9825	9720	9710	7240	7170		World Service	#1 v Cuba						2/12/92

2030	2125	Netherlands	R Netherlands	13700	11660	9895	9860	7285						wAf		2/27/92
2030	2125	Poland	Polish Radio Warsaw	9525	7270	7145	6135	6095						Eu		1/31/92
2045	2130	Bulgaria	R Sofia	15370	15160	11735								World Service: Eu/Af		2/28/92
2100	2200	China	R Beijing	15170	11715	9920	6950							e&sAf/Eu	#1&2 -2130	2/17/92
2100	2130	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930							Eu		2/9/92
2100	2200	Russia	R Moscow	17690	15130	11840	9860	9720	7380	7240	7170			World Service	#1 2130-   #3 v Cuba	2/12/92
2200	2300	China	R Beijing	7170	3985									Eu	#1 Rus #2 Swiz -2230	1/26/92
2200	2400	N Mariana Is	KHBI	15405	13625									China/Japan/Indon	310/240 deg	2/13/92
2200	2400	USA	WCSN	13770										sEu/nAf	75 deg	2/13/92
2200	0200	USA	WWCR/2	12160												2/9/92
2200	2300	Ukraine	R Kiev	9785	7380	6020	5960							Eu		2/13/92
2200	2300	Russia	R Moscow	17690	17655	17570	9870	9860	9750	9520	7240			World Service	6045 v Cuba -04	2/12/92
2200	2225	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930							Eu		2/8/92
2230	2300	Lithuania	R Vilnius	9710										Eu		2/2/92
2245	0100	Bulgaria	R Sofia	17825	15370	15135	11870	11720	9700					World Service: Eu/NA		2/28/92
2245	2305	Vatican State	Vatican Radio	11830	9845	7310	6150							As/AusNZ		2/2/92
2300	2350	Turkey	V of Turkey	11895	9445	7185								Eu/NA/ME		2/27/92
2300	2400	Russia	R Moscow	21690	17655	17570	12045	7150	7115	6045	4860			World Service	#7 v Cuba -04	2/12/92
2300	2325	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930							Eu		2/8/92
2315	0115	Iraq	R Baghdad	15445	11830									SA/NA		1/31/92
2330	2400	Columbia	R Difusora Nacional	17862	11822										Sa   freqs vary	2/8/92
2330	2400	Sri Lanka	SLBC	15425										wNA		2/27/92

English Language DX Shows  
 By Day of Week  
 Changes Entered between 1/25/92 and 2/28/92  
 Compiled by Thomas R. Sundstrom, W2XQ

Day	Program	Xmsn Start Time	Show Start Time	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Freq. #9	Freq. #10	Program Notes	Record Last Updated
Sunday	Signals	1100	1605	USA	WWCR/1	15690										subject to bumping	2/2/92
Monday	World of Radio	1100	2200	USA	WWCR/1	15690											1/31/92
Monday	Signals	0100	0705	USA	WWCR/1	7435											1/31/92
Monday	World of Radio	0100	0600	USA	WWCR/1	7435											2/9/92
Tuesday	DX Program	1600	1605	Poland	Polish Radio Warsaw	11840	9525	7285								if not hrd, chk Wed	1/31/92
Tuesday	DX Program	1800	1830	Poland	Polish Radio Warsaw	9525	7145									if not hrd, chk Wed	1/31/92
Tuesday	DX Program	1300	1335	Poland	Polish Radio Warsaw	11815	9525	7145	6135							if not hrd, chk Wed	1/31/92
Tuesday	DX Program	2030	2035	Poland	Polish Radio Warsaw	9525	7270	7145	6135	6095						if not hrd, chk Wed	1/31/92
Wednesday	R Sofia Calling	2245	2345	Bulgaria	R Sofia	17825	15370	15135	11870	11720	9700						2/28/92
Wednesday	DX Special	2200	2210	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930								2/9/92
Wednesday	DX Special	1800	1810	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930								2/9/92
Wednesday	Waveguide	0230	0415	England	BBC	9915	7325	6175	5975								2/27/92
Thursday	R Sofia Calling	0400	0545	Bulgaria	R Sofia	15160	11765	11720									2/28/92
Friday	DX Show	1630	1645	Portugal	R Portugal	21515											2/13/92
Friday	World of Radio	2200	2230	USA	WWCR/2	12160											2/9/92
Friday	R Sofia Calling	2245	2330	Bulgaria	R Sofia	17825	15370	15135	11870	11720	9700						2/28/92
Saturday	DXers Unlimited	2200	2235	Cuba	R Havana	9620	7215										2/1/92
Saturday	DXers Unlimited	2000	2035	Cuba	R Havana	17705	9760										2/1/92
Saturday	DX Asiawaves	2300	2315	Guam	KSDA	15610											1/25/92
Saturday	Calling All Radio...	2200	2205	Czechoslovakia	R Prague Int'l	9605	7345	6055	5930								2/8/92
Saturday	World of Radio	1800	1830	Costa Rica	R for Peace Int'l	21465	15030	13630									2/16/92

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