

the JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXIV, Number 3

March, 1994

The Voice of Hope

La Voce della Speranza

صوت الرجاء

La Voix de l'Espérance

Голос Надежды

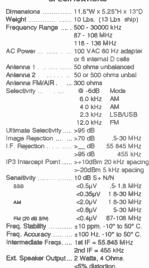
Stimme der Hoffnung





SW-8

SPECIFICATIONS





The R.L. Drake Company has created another winner. The new SW-8 is a portable communications receiver offering the worldbard listener an impressive array of features. Coverage from 500 to 30000 kHz is supported in AM, USB and LSB modes. Orallty reception of the AM broadcast band and all of shortwave is assured. We were delighted to learn that Drake elected to include the FM broadcast band in the new SW-8. Finallty a quality communications receiver with FM broadcast band (87-108 MHz) coverage. And it sounds great loci. The extra heavy, lorward facing speaker, along with a tone control, combine to offer pleasing fidelity. As a bonus, the VHF aerorautical band is also featured (116-136 MHz). Enjoy listening to commercial aircraft over-head, or even control lower transmissions if you live new ran airport.

The impressive becklit LCD panel provides all the operational data you need to navigate this impressive receiver. Frequency display resolution is to 100 Hz on AM, shortwave and aircraft bands. The SW-8 is a full fiedged communications receiver built is also a true portable. The full size front handle makes it easy to carry. Please note that this handle can be conveniently removed by the user for slationary operation. The SW-8 holds stx D cells, and a priorit telescopic whip extends from the front for fully independent field coeration.

For the shortwave and medium wave broadcast bands, a synchronous detector (SYNC) improves reception by reducing distortion due to fading signals. Other alds include slow or fast AGC, RF attenuator and tone controls. Three IF bandwidths are supplied (6.4 and 2.3 kHz). Two independent clocks provide dual time zone selection, and a two event timer furns the radio on at a prescribed time. Seventy non-votable memories store, frequency, mode, bandwidth, AGC setting, RF attenuator and synchronous detector on/off. These memory channels may be accessed manually or through "time scan" with seach channel monitored for 5 seconds. Keypad entry is provided for instant access to any frequency.

The back plane of the radio includes a PL256-type antenna jack or were inputs for shortware. Spring terminals are also provided for an external FM/AIR antenna. Record output, and external speaker (4-8 ohm) jacks are also featured. The SW-8 comes with a plug-in 120VAC power pack or may be run from six D cells (not provided). The tatlest member of the proud Drake family, the SW-8 provides performance, flexibility and features at an affordable price. Made in the U.S. A. Please all to confirm price 8 available.

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NASWA Notes

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



March is a big month for the shortwave listening hobby. First, the ANARC sponsored North American DX Championships ("NADXC") will be held the first weekend of this month. Second, the 6th through the 12th is Shortwave Radio Week. Third, the seventh annual Winter SWL Festival will be held the second weekend of the month. Finally, the 21st marks the vernal equinox, the last great seasonal hurrah(?) for DXing Southeast Asia from North America. All this and another packed issue of the JOURNAL too!

New Country List & Awards Program Booklets Now Available!

I am very pleased to announce that the NEW NASWA Country List and Awards Pro-

gram booklets are now available! The NASWA Country List Committee worked many hours to put together the new standard for NASWA Scoreboard rankings, awards, and contests and for individual record keeping. The Journal sized 18 page booklet contains the complete NASWA Station Counting Rules, a detailed listing by continent of the approved countries, and a comprehensive listing of the NASWA Awards Program.

The NEW NASWA Country List & Awards Program booklet is available from NASWA Headquarters for \$2 postpaid. Every NASWA member should have one of these booklets in his or her shack. My thanks to the NASWA Country List Committee for a job well done!

Welcome to the following new NASWA members -

James W. Boak, Clarksville, TN William Borucki, Sunnyvale, CA Richard Brooke Jr., Jacksonville, Fl. Kevin Caufield Jr., Brooklyn, NY David Conyers, St. Petersburg, FL. Michael K. Daniels, Fremont, CA Michael G. Doyle, Palmyra, NY Frank Dueker, Herrin, IL Paul J. Fanelli, Valdese, NC Frank J. Francis, Elkton, MD Mohammed F. Hadi, Westminster, CO Koji Hideshima, Chiba, JAPAN H. Frice Kagey, San Diego, CA Mashahiro Kawai, Ogaki, JAPAN Jim Klein, Detroit, MI Danny L. Kolhage, Key West, FL T. Patrick Lathrop, San Francisco, CA John MacDonald, Poulsbo, WA Martin Magid, Newtonville, MA Mario Malvizzi, Wilkes-Barre, PA John L. Maps, Tucson, AZ Craig M Martek, Dillsburg, PA Stephen E. Martin, Woodbridge, VA

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OUR MOTTO IS - "UNITY AND FRIENDSHIP"

DX Conferences

The changing of the season generally signals the beginning of the DX conference season in Europe. This month we have information about two such events. If any of our members plan to attend either if the following events, please consider writing about your adventures for the membership to share in the pages of the JOURNAL!

First, the 28th EDXC Conference will be held in Paris, France from Friday 20 May 1994 to Monday 24 May 1994. It is being organized by the club Amitié Radio (B.P. 56, F-94002 Créteil Cedex, France). A registration form and further details of the conference can be obtained from club president Roland Paget by mail from the club's address, by phone [33-(1)43393841] or by FAX [33-(1)49803305]. Some of the topics included in the provisional agenda include: Radio Listening in the Czech Republic by Alain

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. Contributers 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, Dave Kirby N8JQX, and Hausie WB4JSP, host an always lively gang of DX moniters. (Best heard in the eastern half of NAm)

Slivinsky; The New Generation of Short-wave Tunable Antennas by Thomson-TDF; Radio France International and Its Activities by RFI, and New Receivers by Lowe Electronics

Second, Swedish DX Parliament 1994 will be held in Norrkoeping (about 150 kilome-

Calendar Of Events

- Mar 16- Meeting, N.E. Ohio SWLs. Cuyahoga County Library, 9089 Brecksville Rd., Brecksville, OH (Rt. 21, just South of Rt. 82). 7:00 PM. For info send SASE to: NE Ohio SWLs, c/o Donald J. Weber, P.O. Box 652, Westlake, OH 44145-0652
- Mar 18- Meeting, Philadelphia Area NASWA Chapter. Kulpsville Holiday lnn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- Mar 18- Meeting, The Boston Area NASWA Chapter. Bull Cafeteria, Billerica, Mass. 7:30 PM 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 19 The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Apr 3 The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.
- Apr 15-18 Convention 1994 to be held at Camp Iona in North Otago, New Zealand. For more info contact: Convention'94, c/o Basil Jamieson, P. O. Box 179, Oamaru, New Zealand
- Aug 10-14 Radio Comm '94, Holiday Inn, Costa Mesa, CA. For more info send a #10 SASE to: SCADS, 6398 Pheasant Dr., Buena Park, CA 90620

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

ters southwest of Stockholm), from Friday 17 June to Sunday 19 June 1994. According to information received from their International Secretary Michael Andersson, the event will be hosted by the Distant Listeners of Norrkoeping ("NDL") and will provide DXers in Sweden a chance to gather information, exchange experiences and ideas, and provide a forum to discuss and make some decisic ns about the future of the Swedish DX Federation at the annual meeting. More information can be obtained from the organizers NDL, c/o Goran Bayard, Fabriksgatan 6, S-641 30 Katrineholm, Sweden (phone +46 150 188 26).

The Voice Of NASWA

I would like to announce that Marie Lamb will be the new Voice of NASWA on the DX Partyline program over HCJB. Congratulations to Marie and a special thank you to all the club members that volunteered for this important position. As I have said before, it is the volunteer efforts of our club members that make the club and the JOURNAL the best in the shortwaye business.

Back Issues Needed

HELP!!! We are in need of the following back i; sues of *Frendx* for our *Twenty Five Years Ago* feature that was introduced in January: September 1969 though December 1969 (4 issues); all of 1970 (12 issues); and January 1971 through August 1971 (8 is-

sues). If you are willing to part with your back issues or can make copies of those issues, it would be appreciated. Please contact Rich D'Angelo (2216 Burkey Drive, Wyomissing, PA 19610 / GEnie: "R.D'Angelo3") as soon as possible. Thanks!!!

Anonymous Musings and Articles

If you read the Musings section of last months *Journal*, you may recall a submission by an anonymous NASWA member. This was the last time that any anonymous musing or article will be accepted for publication. It should be reiterated that all Musings are the opinions of the submitter and not NASWA.

New Tiare Catalog

Finally, hot off the presses is catalog number 8 from Tiare Publications (P. O. Box 493, Lake Geneva, WI 53147, USA). Great Radio Reads is jam packed with shortwave radio related titles and now includes releases from Limelight Books. Among the interesting titles is a new release from Clandestine DXpert Mathias Kropf called *The Clandestine Broadcasting Directory*. Scheduled to be available April this book sounds like one that anyone with an interest in this subject will want to have. Tiare has also added a toll free number for ordering (1-800-420-0579). Great Radio Reads! can be had for only a US\$1.00. Tell 'em NASWA sent you!!

FRENDX: Twenty Five Years Ago... Executive Editor Bill Eddings put out a call for volunteers to assist as a co-editor of Log Report. For the first time in seven years, the club did not handle WRTH orders for members. The Shortwave Broadcast Center carried reports of Billy Graham's plans to put a shortwave broadcast station in Hawaii. Also, a new series entitled "How IDX" began with Board of Directors member Don Jensen's story being the first in the series. Satellite broadcasting was in the news with a reprint of an article on the "Future of Shortwave Broadcasting" written by Edgar Martin and George Jacc bs. QSL Report editor Gregg Calkin reports "The Engineering services of the CBC International Service have announced that in 1968 they processed a total of 25,216 requests for QSL cards during 1968. This surpasses 1967's total of 19,556 and is nearly four times the total for 1963." Members are reporting site identification again by the VOA. Log Report contributors included: Don Billingsley, Gregg Calkin, Gerry Dexter, Dan Ferguson, Marlin Field, John Figliozzi, Art Glover, Glenn Hauser, Del Hirst, Henry Michalenka, Al Niblack, Bob Padula, Robert Palmer, Edward Pyatt, Ed Shaw, Al Sizer, Bill Sparks, John Tuchscherer and Richard Wood.

Musings

This column provides a forum wheras members can express comments, ideas, and thoughts about NASWA or the SW radio hobby. Please feel free to comment on anything presented this month (or previous months). Opinions expressed here are are soley those of the submitters.

Jerry Berg, 38 Eastern Ave., Lexington, MA 02173

Don Moore's two articles in the January JOURNAL were, as usual, thoughtful and thought provoking. In each he comments, with appropriate skepticism, on a radio future predicted by some (myself not included): much expanded international satellite broadcasting services, and no shortwave and no OSLs.

On the matter of satellites, it is worth noting that one of the early reasons for the development of shortwave was as a vehicle for moving programs across long distances for local rebroadcasting. The first shortwave broadcasting station (just as it was first in BCB) was KDKA. It commenced experimental shortwave broadcasts in 1923. There were few shortwave sets around in the 1920's, just as there are relatively few satellite receivers today. Shortwave broadcasting was thus seen as a means of getting programming to far away BCB stations, which would then rebroadcast the programs on their local medium wave frequencies. (It was also hoped that it would elininate AT&T's monopoly on the long distance telephone lines that BCB stations needed to distribute programming on a networked basis.) Direct international shortwave broadcasting came about only with the development of the reliable, superheterodyne receiver at the end of the decade of the 20's. I believe it is unlikely that direct international broadcasting by satellite will become a major service until satellite receivers approach the ease of use of today's shortwave receivers.

In addition to the technical issues, large scale international broadcasting by satellite probably will never catch on until there is a radical improvement in the quality of the programming. The output of the government controlled media in most countries is pretty pathetic by western standards. Until the stations produce something worth listening to, the availability of the technology won't make much difference. Ironically, the stations that do the best job on this today—the BBC, Australia, Germany, Holland—are also those that already put in the strongest and most reliable shortwave signals. So who needs satellite?

On QSLs, they are basically mementos of our listening experiences. What sets them apart from other radio mementos, like stickers or schedules, is that they must be earned. And while stations vary in what they require in program details, and SWLs certainly vary in the quality of details they provide, part of the challenge of QSLing is showing the station that, whatever others might do, YOU adhere to high standards in proving that YOU in fact heard them. It is one reason why I have gone to taped reports for almost all "real DX" reports. My reply rate may be no higher than others, but at least I know that I have offered the best possible proof of MY reception. It may serve to set my letter apart from other reports in which, as Don says, the program details could as easily belong to one station as another. While it is true that some QSLs are only "irrefutable proof that letters were mailed," others are definitive verifications. I recently received a QSL from ZLXA in New Zealand for a tentative taped report. I described the program as best I could, but the very weak signal made a convincing written description impossible. Imagine my pleasure when the station official told me that from my tape HE was able to identify the voices of the particular announcers, and even passed my tape along to them. Such a reply is certainly a "verification" in every sense of the word.

ERIC BUENEMAN (NOUIH), 631 Coachway Lane, Hazelwood, MO 63042-1347 I read the article on on-line services and shortwave radio in the February 1994 NASWA Journal, and one service was left out, that being Prodigy, in which I subscribe to (along with a few other NASWAns), owned by Prodigy Services Corporation. The service has a Hobbies bulletin board, led by Tony Morelli, and has two topics of interest to SWLs and

DXers. The "More Radio Hobbies" topic is where you can find notes of interest on SWL, BCB DXing, scanners, CB radio, Part 15 AM/FM broadcasting, Pirate radio, and other radic -related subjects. The best part of this subject is the MW BCB DX Test notes compiled by noted MW BCB DXer Bill Hardy in Aberdeen, WA (host of the 1994 IRCA Convention). SWLs Joe Hanlon and Rob Harrington also check into the topic on Prodigy. Not too many note; on SWL appear here, but they are there. The other topic of interest to SWLs and DXers is "Ham Radio", where you can find a lot of technical notes and lively discussion on the issues of the day in the Amateur Radio hobby. The best part of the Ham Radio topic are the bulletins coming out of ARRL headquarters in Newington, CT (under the subject heading "WIAW Bulletins"). Prodigy has also added the "Mail Manager" feature, which can allow you to exchange notes to those on other services via the Internet. For instance, if you were to send a note to me from another service, my Internet address is: DRKX13A@prodigy.com. When I send a note to someone on CompuServe, the sending address is (as an example) 12345.6789@compuserve.com. Sending to someone on MCl Mail, the sending address is 123.4567@mcimail.com. How about sending to someone on America On Line? The same applies as the other computer services. I haven't tried sending a note to someone on GEnie yet, but I think the same applies with GEnie as well. Pete Grenier's musing about the old WRUL/WNYW got me thinking to where the calls are assigned now. WNYW, as many of you know, is assigned to VHF-TV Channel 5 in New York, the flagship station of the Fox Network, What about WRUL? It's assigned to 97.3 MHz in Carmi, Illinois (in the southeastern part of the state), running Country music (SOURCE: Dajja Enterprises' FM and TV Journals).

Also, I intend to raise the issue of how to count Alaska and Hawaii. Most organizations still count these as separate radio countries, when, in reality, both have been a part of the United States for 35 years. Likewise with counting Newfoundland as a separate radio country, even though it's been in the Canadian Confederation for 45 years. I also see the same thing for Zanzibar, even though it's now part of Tanzania. When a country admits a state, province or other political unit, it should be counted as being in the country that admitted the state or province, and no longer counted as a separate radio country, regardless of how far it's removed from the main part of the country. In my honest opinion, it's time that Alaska and Hawaii be removed from the list of radio countries and be counted as part of the United States of America, likewise with Newfoundland (and count stations in that province as being Canadian, like the NRC has been doing for a long time) and Zanzibar (counting stations there as teing from Tanzania). That'll stir up some debate for months to come. I haven't bought my 1994 WRTVH yet (the latest one I have is from 1992), but I'll have to get one. Gateway Electronics here in St. Louis has them, along with the Amateur Radio Callbook (North Arrerican and International editions). For more information, the number is (314) 427-6116. 73 and good DX from NOUIH.

Don Moore, 11434 140th Street, Davenport, Iowa, 52804-9538

I was very disturbed by the last musing in the February NASWA, one of the strangest things ever to appear in a shortwave bulletin. I have heard criticism of the WRTH ever since I started this hobby 23 years ago. Sometimes the criticism is justified, sometimes not. But I don't think that anyone has anything to fear from the WRTH or anyone else in the hobby for pointing out inaccurate or incomplete information. What really makes this item odd is the "na me withheld to protect my family" at the end. The last I knew, Andy Sennitt was not him g thugs to protect the WRTH's reputation. Unless this individual works for the WRTH and is in fear of being fired, I really don't see what he or his family have to fear. An item like this creates a falsely negative image of our hobby and its institutions, especially for newcomers. While publications and persons in this hobby may not always agree, it never comes close to the stage where someone might have something to fear. I think the implications of the "anonymous" musing with the "protect my family" statement are so utterly ridiculous that this musing should never have been considered for publication.

Raymond J. Loeper, N2RAD, 1 Second Ave., Albany NY 12202-1510
I am writing this note to let you know of a new SWL net on 2 meters. The net is known as the Northeast Shortwave Listeners and Scanner Net and meets every Wednesday at 8:00 PM local time on the 147.210 repeater. The 147.210 repeater is located in Martindale, NY and is sponsored by the Rip Van Winkle Radio Society with the call sign of WB2UEB.

I hope by mentioning this net in the Journal participation in this little known net will be increased. Having been a faithful listener of the ANARC SWL Ham Net for the last five years and a member of NASWA for about the same length of time, I find both the net and the Journal greatly increase my enjoyment of the hobby. Thanks again for all your work. You are doing a great job.

73's, Ray

Nick Terrence, 12 Eleanor Place, Huntington, NY 11743

Recently I began a subscription to "Shortwave Magazine" published in the UK. Frankly, I was surprised that this magazine was not more well known with shortwave hobbyists. In some respects it is similar to Monitoring Times covering RTTY, Propagation, Fax, Weather Satellites, etc.

Since I've only read two issues, it appears to be written on a semi-professional level, and packed full of information from a European point of view. In the January 1994 issue an interesting review of the AR-3030 Communications Receiver was the featured article. For me, the most interesting articles are kit building. From scratch, there are complete plans for a "Single Transistor Reflex Receiver" and an "Acorn One-One Valve Receiver" in the January issue. This magazine is not cheap! Roughly \$45/ yr which includes airmail rate to the US. The address is:

PW Publishing Ltd., Arrowsmith Court, Station Approach, Broadstone, Dorset BH18 8PW, United Kingdom

Credit card subscription phone/ answering machine: 011-44-202-659-930. Fax: 011-44-202-659-950.

Harry Helms, AA6FW, 7445 Andasol St., San Diego, CA 929126

I enjoyed Don Moore's thoughts on the implications of satellites for international broadcasting in the January FREN...I mean, Bulletin, as well as Steve Sprachman's response in the February issue. My own 2¢ on the matter is that satellites are going to radically alter international broadcasting directed to developed countries, and the SWLing scene will be vastly different two decades from now. Indeed, NASWA itself will be transformed by satellite technology into a different organization than it is today.

While I appreciated Don's thoughts on the subject, his analysis was badly flawed because it was based on the assumption that existing satellite television technology - which is over a quarter-century old - will be the main technology for any direct satellite broadcasting. That will not be the case. Any direct satellite broadcasting would be almost certainly based on linked low Earth orbit satellites instead of geosynchronous satellites. Back in January, the FCC proposed a new telephone and data service developed by the Iridium consortium (Iridium includes Motorola, TRW, Loral and others). The Iridium system calls for dozens of satellites in low orbits (approximately 600 miles), with all satellites interlinked to form an orbiting network able to access any point on Earth The effect will be similar to a terrestrial cellular telephone system, with calls and data transmissions switched to another satellite (or "cell") when a satellite moves out of range of the ground user. This system will make possible true world-wide portable telephone communication; you'll be able to call your buddy on his trans-Atlantic sailing trip while you're trekking in Nepal! In addition to telephone service, Iridium will provide Fax, data transmission, cargo tracking, and environmental monitoring (like the level and temperature of a lake) services. The Iridium system will not require a monster dish antenna; the necessary antennas (and telephones) will be similar in size to those used by today's cellular telephones.

Another element will be the widespread use of spread spectrum modulation methods. (You may have seen the new 900 MHz cordless phones that use this modulation technique.) Spread spectrum modulation takes the transmitter's output and "spreads" it over a wide bandwidth at a low amplitude; conventional modulation methods, like AM, concentrate most of the transmitter power in a narrow bandwidth at a high amplitude. The transmitter

power is spread over a wide bandwidth by a "spreading code". Several spread spectrum signa's can occupy the same bandwidth if different spreading codes are used with no interference. The Iridium system will use spread spectrum techniques, meaning its channel capacity for a given frequency space will be far greater than existing terrestrial systems.

The upshot of all this is that the technology exists *now* for a direct satellite broadcasting system capable of providing CD quality stereo sound anywhere in the world. The only missing piece is on the regulatory end. In February, the Clinton administration made the first move in that direction by announcing that several military allocations in the UHF/SHF range will be reassigned for other uses. One of those specified was direct satellite broadcasting.

Within a few years, radio receivers will be available that will let you hear signals direct from satellites. The signals will be in stereo, with CD quality, be free of fading and interference, and hundreds (maybe thousands) of channels will be available. The necessary antennas will only be a few inches long - like a cellular telephone - and cost will be comparable to today's better SW portables.

I know there are quite a few people - broadcasters, other DX authors, SWL equipment dealers - who dispute the notion that satellites will ever play a big role in international broadcasting. While I respect those people, I feel they're reacting more out of an emotional attachment to SW (and maybe fear of what satellites will do to their careers and businesses) than a rational assessment of the situation. When direct satellite audio broadcasting becomes available, the ampact on SWBC will be similar to what happened to vinyl LPs when the audio CD was introduced. As much as I love SWBC, I'd much rather listen to the BBC or Radio Moscow via a crystal-clear satellite channel!

Let's don't forget direct satellite TV broadcasting. Hughes is scheduled to launch its first direct broadcasting satellite in April. This "bird" will offer 150 channels, and will require a dish a itenna only 18" in diameter. The first receiving systems will be about \$700, although the price is predicted to drop to \$300 in a couple of years. Monthly fees will be about \$30, and it ooks like your local cable system is about to get some long overdue competition. More such satellites are on the drawing boards. I agree with Steve Sprachman's observation that international television will fill many of the new cable or satellite TV channels. I don't think we have to worry about a lack of programming diversity. My cable system only supports 48 channels, yet I get Mexican stations (any other fans of those El Santo/Blue Demon movies out there ???), NHK programs in Japanese (love their game shows!), and movies from India. I'd welcome many more such channels, including programming specifically for foreign audier ces as well as relays of domestic programming. With many more channels to fill in the future, I think I'll get my wish granted. My cable system is scheduled to expand to 105 channels by 1996, and they're already talking about adding stuff like the CBC French network and BBC 1 and 2 domestic programming to fill those new channels. People want programming variety, not sameness, and will Jemand that in new communications technologies. And something tells me that selling time to the BBC or Deutsche Welle will be an easier way for cable systems to make a buck than pay-per-view movies.

Direct satellite broadcasting will probably encourage many more nations to take part in international broadcasting, It's already much, much cheaper to uplink a program to a satellite than it is to maintain a large HF transmitting facility. When there are hundreds (or even thousands) of channel slots to fill, the "per channel" cost will be surprisingly reasonable. Countries like Thailand, New Zealand, Argentina, Egypt, etc., will have a far better chance of reaching an audience of appreciable size via satellite than they do currently by shortwave.

I don't think censorship fears are realistic - after all, there was no censorship of CNN from Baghdad during the Gulf War (except by Iraq itself) or from Moscow during the 1991 coup or 1992 attack on the Parliament building. Lots of different nations have satellite launch capability and no one will have a monopoly on space access os satellite systems. Parallels to attempts at library censorship aren't valid, since libraries are publicly supported while satellite systems will be commercially operated. While capitalism does have its flaws, it does have the virtue of being comparatively immune to political influences; a favorable Dun & Bradst eet report is more important than a customer's ideology.

Shortwave won't disappear entirely when direct satellite broadcasting arrives. However, there will be big changes. Expect to see services directed to North America, Europe, and Japan move from shortwave to satellite. The more affluent nations of the Middle East and Asia will be the next target of satellite broadcasting, followed by the remainder of the Third World. Expect to see far fewer shortwave channels in use for international broadcasting; hearing Deutsche Welle in English on shortwave could become rare DX! The result will be reduced congestion and interference, allowing the remaining international and domestic broadcast services to be more easily heard.

I expect persons primarily interested in listening to international broadcasts, as opposed to DXing, to migrate permanently to satellite reception. Most of those people will leave the SWL "hobby" and drop out of clubs like NASWA. Reception reports and QSLs will become a thing of the past for most international broadcasters. The emphasis in the SWL hobby will once again shift back to hearing shortwave stations for "sport" - DXing - and the NASWA of the future will more closely resemble something like today's Fine Tuning. Both listeners and DXers will win - listeners will have the reliable, pristine reception they crave, while DXers will have reduced QRM for chasing the remaining broadcasters. On a personal level, I doubt there will be a viable market for my SWLing books twenty years from now!

By the way, satellite broadcasting will also have a big impact on AM and FM broadcasting. I expect AM to be especially hard hit, with most local programming moving to FM and music programming dominated by satellites. Several hundred AM stations won't be needed to carry Rush Limbaugh if a single satellite can, and I expect a lot (maybe most) AM broadcasters to go out of business.

I feel anything that lets more information move across international borders with greater ease is an unqualified benefit for everyone involved. The introduction of satellite broadcasting will enhance international communication, not degrade it. Something tells me the "good old days" of international broadcasting are still ahead of us, and I can't wait for them to arrive!

Net Notes

Kim Andrew Elliott of the Voice of America posted the following message regarding Internet e-mail addresses for the VOA to the rec.radio.shortwave newsgroup on Usenet:

"The Voice of America has new internet addresses for messages from listeners:

"For program schedule requests and general messages from outside the United States: letters@voa.gov

"For reception reports (requesting a QSL card) from outside the United States: qs | @voa.gov

"For program schedule requests and general messages from inside the United States: letters-usa@voa.gov

"For reception reports from inside the United States: qsl-usa@voa.gov

"Please include your postal address when sending internet messages, as in most cases we will have to reply by mail.

"Comments and suggestions about VOA programs, scheduling, and reception quality are especially appreciated."

The VOA has also set up ftp and gopher servers on the Internet, providing on-demand access for users with direct Internet access to program and frequency schedules as well as to the internal news wire service the VOA uses in preparing its newscasts. The news service files are updated on a near-continuous basis. The news reports are currently available in English only, but the VOA is investigating the possibility of providing them in many, if not all, of the languages in which it broadcasts. The ftp service is available from ftp.voa.gov; gopher service is available from gopher.voa.gov.

Easy Listening

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

Radio Australia

I have seen a definite pattern emerging in Radio Australia's revamped schedule. Many of the rograms now airing on Radio Australia are retroadcasts of programs on Australia's domestic radio network, ABC. The latest example: The Europeans, airing 1330 Saturdays. The Europeans is a current affairs program looking at European issues and news background. A recent edition looked at Grecian politics and the difficulties in standardizing illegal drug policies across the European Community's various countries and c ties. What makes The Europeans particularly interesting is that most shortwave current affairs programs focusing on Europe (for example, Deutsche Welle's European Journal) are produced by broadcasters native to Europe. Matters of policy and politics are discussed from a perspective within the sphere of events. In contrast, The Europeans originates from a country outside the sphere of influence. In some ways, this is like listening to the BBC World Service for perspectives on American politics. It's a view you won't find in the USA.

BBC: World Service Highlights

The BBC World Service is featuring a "miniseason" on foods this month. I'll do you a favor and avoid most of the obvious puns. I'll group programs on the topic of foods separately.

Food Season

Wednesdays, 0030: Omnibus featurs an ongoing series entitled A Festival Of Feasts, looking at how different cultures observe ceremonies of birth, marriage, and death and how food and drink contribute to the celebrations. Gill Wilkey explores the origins of these traditions and how they're handed off to succeeding generations. Omnibus runs

30 minutes and is repeated at 1001 and 1930. The Wednesday 0030 broadcast moves one hour earlier to Tuesdays 2330 as of March 29th.

Saturday-Friday, March 12th-19th, 0105: Outlook joins in the observances of Food Season with a series of programs on the food situations in various countries. Food shortages and the encroaching of Western habits on traditional eating habits is explored. Outlook runs 25 minutes, and airs daily except for Sundays and Mondays. The first two daily airings of Outlook are Mondays through Fridays 1405 and 1905. NOTE: While BBC Worldwide shows this series as beginning on March 12th, and is shown that way above, I suspect the series of special programs will actually air at 0105 Tuesday through Saturday, March 15th through 22nd.

Sunday, March 13th, 1401: You Are What You Eat is a single 30-minute program reporting on traditional eating habits around the world, how food is cooked, and how the diet-related health of various cultures measures up. Repeated the following Monday 0630 and 1001.

Sunday, March 21st, 1401: Get your questions ready for the You Are What You Eat Phone-In, in which diet and nutrition experts will answer listeners' questions on healthy eating, how to prepare foods to preserve nutrition. and to discuss and debate the evidence linking diet to health. You can mail questions to the You Are What You Eat Phone-In, Room 812 CB, Bush House, Strand, London WC2B 4PH, United Kingdom. You may also want to try out the new E-mail address, i ac@bbcibar.demon.co.uk. This mailbox is for the International Audience Correspondence department, which should be able to route your question to the Phone-In folks. You can also phone in your question after 1200 on the day of the broadcast; dial your international access code plus 44-71-379-7444. 30-minute edited repeats will air the following Monday 0630 and 1001.

Sunday, March 27th, 0230: Black Pearls is a single 30-minute program looking at caviar, one of the world's most highly priced and highly prized foods. World political changes have impacted caviar supply, as the Caspian Sea, home of 90% of the world's harvest, now borders on five countries instead of two countries since the breakup of the USSR. The challenges of chronic overfishing, pollution, and rampant poaching are examined. Repeated Sunday at 1615, and the next Monday 0730.

Monday, March 28th, 0101: An Ice Cream Sundae is a single 30-minute program on the history, fact, and fantasy surrounding ice cream. Marco Polo is said to have brought it to China: Catherine de Medici brought it to France, and there were ice cream wars in Glasgow. You'll visit the kitchens of Sicily. the kulfi-makers of London's Indian community, and Nardini's of Lrgs-Scotland's most famous Italian ice creammaking family. An Ice Cream Sundae First airs the previous Saturday 1901, also repeated - Monday 1515. Here's a trivia item: Did you know New Englanders eat five times the ice cream, per capita, as Floridians? You read it here first.

News and Feature Programs

Thursdays, beginning March 10th, 0030: Accidents Will Happen is a three-part 30-minute series investigating the subject of chance. Coincidences, luck, and being struck by lightning—all involve elements of chance. Each is explored in its own program. First airing Wednesdays 1530; also repeated Thursdays 1030.

Sunday, March 20th, 0230: Iceman is a single 30-minute program reporting on the detective work aimed at solving the mysteries of the life and death of the "Iceman", the 5300-year old frozen body discovered in 1991 in the Austrian-Italian Alps. This was considered one of the most important archaeological discoveries of the century, as the body survived in a glacier essentially

intact from prehistoric times, and was surrounded by an astonishing collection of artifacts. Repeated Sunday 1630 and Monday 0730

Monday, March 21st, 0101: The Dammed is a single 45-minute program looking at the world's "Superdams" such as Egypt's Aswan High Dam on the Nile. While Superdams bring obvious benefits in irrigation, hydroelectric power, and flood control, they also carry a price beyond the financial cost itself. This price tends to be paid by those whose homes are drowned and lives displaced by the environment. Do the benefits justify the costs? The Dammed traces the history of the Superdam, focusing on the controversial Sardar Sarovar dam in India. First airing Saturday March 19th 1901; also repeated Monday 1515.

Sunday, March 27th, 2330: Hunting Mr. Homer is a single 30-minute program that looks at the author of the *lliad* and *Odyssey*, considered the first works of European literature. The program looks at the speculations and tall tales surrounding the legend of Homer. Some have suggested there were two Homers—one female; others have suggested Homer did not exist at all and is merely a biographical fiction. First airing Sunday 1401; also repeated Monday 0630 and 1001.

Religion

Monday, March 14th, 1415: Commonwealth Day Observance is an annual live ceremony observed every year on the second Monday of March. In the presence of the Queen, 2,000 young people representing all 50 nations of the British Commonwealth gather in Westminster Abbey. The observance reflects the beliefs of all the religions of the Commonwealth. The program runs 45 minutes and is not repeated.

Fridays, 1215: Rough Guide To The Bible is a 30-minute 8-part series that, judging from the writeup in BBC Worldwide, appears to be a dramatization of memorable bible stories. The series was written and devised by Paul Burbridge and Richard Staples, and is performed by the Riding Lights Theater Company. First airing Fridays 0730; also repeated Fridays 1930.

Light Entertainment

Tuesdays, beginning March 29th, 0230: Jazz Score is an 8-part 30-minute quiz program, in which the stories and jokes earn as many points as the correct answers. The program visits some of Britian's best-known jazz clubs. First airings Sundays 2030 and Mondays 1215.

Thursday, March 31st, 2330: Two Cheers For March is the March edition of the monthly 30-minute humorous look at recent current events. First airing Wednesday March 30th, 1530; also repeated Thursday 1030.

Music and the Arts

Sundays, 0101: Play of the Week highlights include the following:

March 13: A Wing And A Prayer, written especially for the World Service, features a woman, Rose, living with her monther, a retired soprano, and with her daughter. Rose's husband has left her for another woman, and she has a new lover. A tragic death, followed by an unexpected phone call, causes Rose to reas: es the way she lives. I have no idea if the fact Rose's mother is a soprano versus a contralto is significant.

March 20th, beginning at 0030: Exchange was written by Yuri Trifonov long before glasnost and showed its Russian audience something they had never seen before—their lives and problems enacted on stage. The play was translated into English by Michael Frayn.

March 27th: The Pipsqueak was nominated as one of the best radio plays of 1993, and looks like an interesting science fiction piece: The Supreme Committee of the Universe appoints Synat-ra (the Pipsqueak) as ruler of the planet Earth. Synat-ra's arrival in the

'60s is an anticlimax, as Synat-ra perfects his guitar-playing and breeds giraffes in the Argentinian pampas while President Kennedy is assassinated, Neil Armstrong lands on the moon, Paris riots, and war rages in Vietnam

Monday, March 14th, 0101: Music To Measure is a single 45-minute program looking at how technical perfection in the classical music recording studio has impacted performance and communication. Is one strategically placed microphone the best way to capture an orchestra's performance? Or, is multitrack editing, mixing, and balancing better? First airing Saturday March 12th, 1901.

Mondays, 0145: Top Scores is a continuing 15-minute series profiling top pop music arrangers and conductors. Nelson Riddle, Conrad Salinger (MGM musical arranger), Andrew Lloyd Weber, and Quincy Jones are featured. Repeated Tuesdays 1445 and Fridays 0415

Winter SWL Festival

Sure hope you can join us at the Winter SWI. Festival! John Figliozzi and I are co-leading a Forum on Easy Listening, and we'll be taking a look at how Easy Listening differs from the segment of the SWL hobby devoted to DXing.

Sorry I don't have a more diverse column this month. It has been an especially busy travel month as I try to find excuses to stay away from the Northeastern USA!

Until next month,

73 DE Richard

FOR SALE: Sony ICF-SW55 with all accessories. Clean. This radio won the 1993 WRTH's "Portable of the Year" award (see page 588). \$260.00 plus shipping. Sony AN-102 Active Antenna. Clean. Works well with the ICF-SW55. \$45.00 plus shipping. If you take both items, I'll pay UPS ground. MC/VISA accepted (add 5%). Tom Sundstrom, PO BOX 2275, Vincentown, NJ 08088-2275. Phone (609) 859-2447 evenings or weekends. Internet 2446376@mcimail.com. Genie T.Sundstrom.

Listener's Library

T. J. "Skip" Arey WB2GHA P.O. Box 644 Waterford Works, NJ 08089 GEnie T. AREY1

Its hard to believe that it is only a little over ten years ago that I traveled over to fellow Naswa member Jon Cohen's house to marvel at his Tandy Model I computer. Back then 4 kilobytes of memory was considered really something. Today I am typing this column on a system that has 8 Megabytes of memory, a two-thousandfold increase!!! Still, there was something special about the early days of home computing and I look back fondly on all the long conversations that we had while we waited for the cassette recorder to load each program. It is little wonder that so many folks who were involved in the origins of the home computer movement were also radio hobbyists. The same kind of curiosity is at the root of both endeavors. If you have joined the ranks of those of us who have slightly less use for our left arms then we do for our computers, take heart. There are some great software packages out there dedicated to the radio hobby.

HAM COMPANION

Version 3.0 \$79.95 + S&H Brinson Microware Corporation 144 S.E. 4th Street Mooreland, OK 73852 1-800-874-0771

Now before anybody gets their nose out of joint about this being a piece of amateur radio software, let's get a few things straight! Ham radio operators have to HEAR signals just like anybody else (with a possible exception of a few clowns on 40 & 80 meters who I am convinced are talking to themselves). Hams need to know locations, great circle bearings, graylines, MUF and LUF just like any dedicated shortwave broadcast DXer. HAM COMPANION provides useful graphical representations that will help you hear those hard to get stations whether or not you have a callsign after your name.

Jonathan and Angie Brinson have taken HAM COMPANION into its essentially seamless third iteration. This program will run on any IBM PC or PC clone (any class processor) with at least 512K of RAM (128 times more then Jon Cohen used to have). It requires 5.5 MB of free hard disk space (That would have been about a gazillion cassettes, Jon). This is a bit hefty for a DOS based program but not out of line for the many capabilities of this product. A great thought on the part of the software author is that this program will run on a system with EGA, VGA or SVGA graphics capability. Not every home computer user needs or desires high zoot graphics. It is refreshing to see a product that still takes EGA into account. Of course, the faster the system, the faster the software will perform. This software is also designed to take advantage of math coprocessor chips if you have one or have been looking for an excuse to buy one. (Hey honey, I'm headed down to the computer store, okay???)

Software installation is a no brainer. Just insert the disk and type INSTALL. Once the program is loaded and running you need to enter your listening post's location to get all the calculations going in the right direction. This program's database includes over 148,000 locations world wide. The database even includes Waterford Works, New Jersey so I am confident you will be able to get your location with no trouble. Your computer's clock will supply the information needed to set the UTC clock and a quick listen to WWV at 18 minutes after the hour will give you Solar flux to update the program's propagation predictions.

The author has a handle on the mindset of computer users. The illustrated manual includes Chapter 1 "Getting Started-The Impatient Way" which lets you route around discovering things for yourself and Chapter 1 "Getting Started-The Old Fashioned Way" which takes you on a bit of a tour of the package. Getting around the program was surprisingly easy given that the program

does not support the use of a mouse. Simply typing the first letter of a listed command gets you to where you want to go. Once you are there, typing in the first few letters of a desired location puts you right on target.

The program is a collection of sophisticatedly linked modules that give the listener all the tools needed to be in "the right place at the right time" to catch that rare station.

To use the Locations section of the program you enter the location of the station you want to hear (you programmed in your location when setting up the software). The computer then calculates that location's latitude and longit ide, local sunrise and sunset time, true bearings, short path distance listed in statute miles, kilometers and nautical miles. The screen will also show you a graphical representation of the maximum, optimum and lowest usable frequencies for the current time through the following two hours. Even thought the database includes over 148,000 locations including 3,000 major islands, you might find a place or two that hasn't been accounted for. No problem, simply enter those missing locations into your personal database section of the program which has a 5000 entry capacity. Come to think of it, you could enter your entire "Hit" list into the personal database section and go signal sniffing in style.

The Maps section of the program presents a map of the world that can be manipulated in several ways. In addition to latitude and long tude lines, this program has an excellent Grayline representation. The program has the ability to plot and display Great Circle paths. The map can be zoomed in and out and features such as borders and location names can be shown or removed as necessary. There are four levels of zoom capability. Moving the pointer around the screen in this section makes one really wish for a mouse interface. However features such as "pointer popup" which helps you get oriented if you drive the cursor off the immediate screen make this process more tolerable. If you like to chase grayline DX this program will help you hear the hard ones.

The Graph section of the program is just the ticket for students of propagation analysis. By entering current Solar Flux information you are presented with a detailed graph of useful frequencies over the next 24 hours.

Again the program gives you Maximum, Optimum and Minimum usable frequency. This program is light years beyond such early radio software as MINIMUF. Just the thing for targeting your listening for those really rare stations. A 24 hour head start will help you plan when to call in sick from work to run up your totals. The graph can be printed out for use at some distance from your computer. Just the thing for taking on that next DXpedition.

Of limited use to shortwave listeners is the Information Popup section of the program. This section includes mostly lists of interest to ham radio operators such as the DXCC countries list. The SWL will find the conversion, weights and measure tables somewhat useful. Still, if you happen to also be a ham, the lists of CW abbreviations, prefixes, emission designators, Q signals, band allocations and WI AW schedules serve to help folks like me who have trouble remembering our own kids names much less the prefix for Freedonia or the Q signal for "My radio is on fire."

The Quick Reference section of the program gives you a place to list information concerning your most frequently used locations. This might be the place to locate your "Hit List" information. Uses for this section are limited only to your imagination.

The Utilities section of the program allows you to change your location, set the program operating colors and even personalize the software with your name and call sign.

Technical assistance is provided through an 800 number. Warranty against defects in material and workmanship is free for the first 90 days from the date of purchase. After warranty expiration, faulty disks can be replaced for a nominal fee.

I am now using Ham Companion in the shack every time I turn on the radios. I have bagged five long sought after stations with its help already. It has revived my desire to go chasing after some stations I figured were just too much like work to listen for. My suggestions for the next version would include mouse capability and an optimized Microsoft Windows. PIF file for folks who might like to run this puppy in the Windows environment. Meanwhile, this is still one of the neatest toys in my shack.

Equipment Review

Alan Johnson N4LUS 6001 Goldsboro Road Bethesda, MD 20817 CompuServe 76665,1756 GEnie AJOHNSON64

GRUNDIG YACHT BOY 400

The two hundred dollar (+/- \$20) price point is a very important one in the shortwave receiver market. It represents a relatively affordable price and for that amount of money the SWL can buy a full-featured receiver with digital keypad tuning, a useable number of memory channels, good sensitivity and in most cases, a BFO for SSB/CW reception. Competition among manufacturers for this market segment is very stiff.

For many years, the German firm of Grundig has made the Satellit line of premium receivers, with a price that matches the radios' performance. Grundig has also produced the Yacht Boy series of radios, which have been lower in cost, with generally uninspired performance. All that has changed with the introduction of the Yacht Boy 400. Grundig has made a \$220 radio that it can be proud of.

YOU WANT FEATURES?

The YB400 is just slightly larger than a paperback book (180 x 120 x 37 mm) and weighs 590 gm with its 6 "AA" batteries. It covers longwave: 144 to 353 kHz, MW/SW: 520 kHz to 30 mHz, and FM: 87.5 to 108 mHz, with FM stereo with headphones. It is fully synthesized and tunes via a keypad or "Up/Down" pushbuttons with either 1 or 5 kHz tuning steps on SW and 1/9/10 kHz steps on MW. The user can also jump between international broadcasting or ham bands by entering the meter band and pressing the enter key, i.e. press "3-1-Enter" and the radio tunes to 9635 kHz.

The LCD display is one of the best available in terms of displayed information. When the unit is off, either of the 24-hour clocks is

displayed, along with the on time for the timer. With the power on, the tuned frequency, meter band, either of the on-board clocks and a bar-graph "S" meter are shown. Finally, a radio that displays both the time and the frequency! Unfortunately, the LCD backlighting originates at the left side of the panel so the lighting gets a bit dim on the right side. I guess there wasn't room to put the bulb at the top. The light is activated by a pushbutton on the top of the unit.

The keyboard logic is very easy to use. A frequency can be entered in either kilohertz or megahertz format, since a decimal point key is included in the keypad layout. So, one can get to WWV at 10 mHz by entering either 1-0-0-0 or 1-0-".". Once the frequency is entered, it is activated by pressing the "Frequ/Meter" button, which serves as the enter button. If a mistake is made during entry, it can be cleared by pressing the decimal point key twice. There is no need to press a special "Frequency" or band button prior to entering the frequency. With the YB400, you can switch between LW, MW, SW and FM just by entering the frequency of the desired station. Now that's frequency agility!

There are forty memory channels which are available for all bands, unlike some of the competitor's radios which allow only a limited number of memory channels for each band. Pressing the "Free" button displays which channels do not have frequencies stored in them. There are also keys for scanning either up or down through the memory channels. The receiver can also scan within bands. For shortwave only the predefined ranges of the meter bands can be

scanned, and the scan step automatically defaults to 5 kHz, even if the 1 kHz step size has been selected for manual tuning.

Besides having a dual time-zone clock, the YB40) has an alarm feature which will either turn on the radio or activate a chime. The switch-off time is automatically set to one hour after the switch-on time, however the radio or chime can be turned off by pressing the generously sized "Snooze" bar on the top of the radio. Momentarily pressing the bar quiets the radio for 5 minutes; pressing the alarm. There is also a sleep timer which will turn off the radio in increments of ten minutes, up to a maximum of sixty minutes.

DUAL BANDWIDTHS

Unlike most radios in this price range, the YB400 has two selectivity positions - "Wide" for listening to stations that are "in the clear" and "Narrow" for use when interference is present. The bandwidths are well chosen and the narrow filter is very effective for SW broadcast stations, but a little too wide for use on the hambands, other than casual SSB listening. I measured the -6 dB bandwidth of the filters at 7 kHz for the wide and 4.5 kHz for the narrow. The report on R. Nederlands "Media Network" of February 18, 1994 gave values of 5 kHz for the wide and 3.5 kH₂ for the narrow. They probably have better equipment than I do, but subjectively, the filters don't sound that narrow to me. The effectiveness of the filters is enhanced by use of the two position tone switch. The switch selects a "high cut" and the turnover point is set relatively high, so it primarily affects high frequency hiss without excessively muffling the treble content of the station's signal. Whoever designed this feature did a great job.

This brings up the other strong point of the ractio-its sound quality. Although it only has a tiree inch speaker, Grundig did something right in designing the audio stage and speaker/cabinet interaction. The YB400 has a full, rich sound that belies its size. No, it doesn't sound like a home hi-fi system, but it makes ary other radio in its size class sound tinny ard shrill. Another small, but appreciated,

design feature are the two small rubber pads on the bottom of the back surface of the radio. It may not seem like much, but it keeps the radio from sliding around when the built-in tilt stand is used. In this position, the YB400 can easily be operated with one hand, without having to use the other hand to stabilize the radio.

THE OTHER FEATURES

The YB400 is capable of SSB/CW reception with its built-in BFO. Unlike more expensive receivers with product detectors, the user cannot select upper or lower sideband with a switch, so ECSS tuning is not possible. However, for monitoring amateur signals in a non-critical fashion, the system works fine. Since the YB400 can tune in one kilohertz steps, it's easy to find a known ham frequency for nets, etc. The fine tuning control has a relatively small tuning range (+/- l kHz), so it is easy to resolve transmissions. Contrary to what the instruction manual states, the fine tuning control has no effect unless the SSB mode is selected.

In addition to the features already mentioned, the YB400 has a telescoping 36" whip, a carrying strap permanently attached to the left side of the radio, a 1/8" jack for an external antenna and a DC input jack (no AC adapter is included with the radio). Memory and clock data is stored for at least ten minutes after the batteries are removed, so there is plenty of time to replace the batteries. Current consumption is very low-the original set of batteries is still going strong after a month of intermittent use. There is no output for a tape recorder and no provision for control of a tape recorder by the built-in timer. There is no synchronous detector.

The YB400 is assembled for Grundig in the People's Republic of China. The radio feels quite sturdy and solid and the keypad has a very positive feel. The radio cabinet is matte black plastic and I feel the appearance is not up to the standards of the radio's construction, i.e. it looks cheap, but it's not. Included with the radio are a leatherette case, "earbud" type stereo headphones, a reel antenna, batteries and a poorly translated instruction

manual. Learning how to use some of the features requires several minutes of head-scratching and experimentation.

HOW DOES IT STACK UP?

I had the opportunity to do a side-by-side comparison of the Yacht Boy 400 with a Sony ICF-SW7600 and a Sangean ATS-606. In terms of overall features and sound quality. the Grundig was the clear winner. The Sony had slightly better sensitivity on shortwave (i.e. I could copy Radio France International on 17,620 kHz in the daytime on the Sony, when it was not audible on the YB400). This test was done with just the radios' built-in whip antennas. Using the included reel antenna with the Grundig did boost the sensitivity. I measured the Sony's single bandwidth's selectivity at 8.5 kHz. The Sony has a slightly higher quality appearance, but the keypad lacks a decimal point and requires pressing the "AM" or "FM" key prior to entering a frequency. In addition, the '7600 only has a total of ten memory channels. The Sony also takes two hands to operate, as it slides all over the table when trying to adjust the volume control slider. Although it has selectable USB/LSB, finding a known ham net frequency is much harder, due to its lack of 1 kHz tuning steps and the wide range of the fine tuning control. The Sony definitely has better lighting of its LCD display, but the clock can only be displayed when the radio is off. The Sony also has a tape recorder output.

The main thing the Sangean has going for it is its size -it's 'almost half the size of the Yacht Boy. It also has the ATS automatic tuning feature which will seek out and store in memory the nine strongest MW and FM signals on the band - a handy feature when travelling. In regards to its SW performance, it kept up with the other two radios, although, like the Sony, it only has a single bandwidth value, which was the widest of the lot at 10 kHz. There was also a lot of hiss in the audio and the sound is a bit tinny because of its small built-in speaker.

THIS IS IT!

If you're looking for a travel portable in the \$200 price range, the Grundig Yacht Boy 400 is the logical choice because of its dual bandwidths, sound quality and ease of tuning. The YB400 would also be a good choice for a "first" radio. If you need the smallest possible radio, the Sangean ATS-606 is a good choice, although it would be worth waiting to see what the price will be on the forthcoming Sony SW100. The only changes that I would like to see on the YB400 are synchronous detection and improved backlighting of the LCD display. Thanks to Universal Radio for providing an evaluation sample of the radio.

THE 6TH INTERNATIONAL DX CONTEST "THE GRAND TOUR WITH CANCER AND CAPRICORN 1994"

The contest runs from Friday, April 15, 1994 at 1800 UTC to Saturday, April 30th at 2400 UTC. It's open to all shortwave listeners regardless of their membership in any club.

Primary contest frequencies are 2300 - 26100. Logs outside this range will be valued by half points. Contest fee: 4 IRC's, Deutsche Marks Dem 5.00, U.S. \$3.00, or GB £ 2.00 British Pound. Should be sent together with the contest form to:

Jaroslav Bohac Jizerska 2900/11, 400 11, USTI, N.L., Czech Republic

Deadline for contest entries is May 9, 1994. (Date of Post Stamp) Contest form is available at above QTH with either an SASE or 1 IRC.

Thanks to - Mark Humenyk, Ontario, Canada for this info

NASWA Portraits

Jerry Klinck 43 Lein Road West Seneca, NY 14224



Welcome to another NASWA Portrait. Hope everyone is enjoying a great '93 - '94 DX season; I am. Now off we go to our visit with Harold "Hausey" Hausenfluck, who is no stranger to listener; of the Sunday AM SWL Net...

"My first experience with shortwave was in the late '503 and early '60s when I listened to a radio that shocked the daylights out of me while a school, listening to all sorts of strange sounds and not understanding fully what they were. That got the best of my curiosity. In the mid '60s I'd take regular AM radios and put them next to downspouts, lightpoles or whatever, to overload the front end of the radio so I could hear shortwave stations. On March 26, 1964 my first shortwave receiver was a gift from my parents. It was a 3 - band Channelmaster portable. The readout was imposs ble, even for a sighted person. I got a piece o' hookup wire from school and I hooked my receiver up to the metal window frame. It was a thrill to hear, firsthand, the original broadc ists from other countries. I really got a 'feel' for the bands since I didn't have a readout available. At home I used various lengths of wire, TV antenna parts, even downspouts'

"One of my early fascinations was the interval signals used by the stations. I put up with my Channelmaster for 6 years and 5 months. In 1970 I got a job and bought a Realistic DX-150A. I heard a lot more on that radio! Charlie, N4RE showed me where Vietnam was on the dial and that was a big thrill, even tho' the signal was weak. He taught me about propagation, which was a big help in getting me more stations. While in school in Washington, learning piano tuning, which is my profession, I took my receiver with me and had to go back to some real simple antennas. The difference in propagation between east and west coast is amazing! A lot of new stations."

"In 1972 I got my first WRTVH and with some help from a sighted friend I got more knowledge on ID3 and IS8. In 1974 an old RME preselector \$5.00 at a hamfest, which helped reception a bunch. In July, 1974 I got my novice ticket and in September 1975 my General Class Ticket. I then got the Drake SPR-4 in January 1975 what a mistake!

It wasn't meant for hamming and SWLing together. Then I went to a R390A with a lot of technical problems, then to a SP600, then back to the R390A for 8 years of good service. From August 1986 till December 1987 I had to borrow a portable, since mine gave up the ghost. Then I got the ICOM R71 in 1987."

"I had pretty good frequency readout on the SPR4, as the dealer punched holes in the dial skirt for each kHz. 3 dots at the zero line and 2 dots every five kHz. I also used a 100 kHz crystal calibrator. I now use an 80 and 40 meter inverted V and a 20 meter sloper for antennas. Also a 40 meter loop. Asia, Africa, and the Pacific are my favorite target areas. Getting publications read has been a problem. I don't QSI. stations but I do tape receptions. My thanks to Shell, W40EI., for opening up the world below 6mIlz."

"I hope that my fellow DXers will take more time with those with a handicap and work with them so they can enjoy their hobby especially the newcomers. I'm sorry HAP folded but I understand why. For my part to help, I'm working on a tape of IDs and ISs to help newcomers get started. I hope WRTVH and 'Passport' are put on computer disk eventually. By the way, shortwave radio in the classroom isn't new. I had it in the 60's and have been taping for others to listen. Also, I'd like to see more accuracy in DXing, as opposed to 'getting it in first'. Also reports to organizations should be very brief, a lot of programming details isn't necessary."

"My heartfelt thanks to all in the ANARC Net for their contributions to Hams and SWLs and to the broadcasters who make listeners programs possible. They are a Godsend to the impaired. Best DX to all, 88s where appropriate and 73 to all!"

Thanks for the great story; "Hausey". I'm sure there are many who would thank YOU for your contributions to the hobby. And special thanks to Vern Hyson for making this nice visit possible!

Till next time, awesome DX!!

Company Store

Welcome to The Company Store for 1994! Just a few notes about some of the items we carry.

The 1994 edition of the Shortwave Radio Guide compiled by John Figliozzi has not been received yet. Stay tuned; I'll let you know as soon as that comes in. This was a popular item throughout 1993.

Please send all orders from the NASWA Reprint Catalogue directly to Bill Oliver at NASWA headquarters (address on the back cover). All other orders for the STORE should come directly to me at 705 Gregory Drive, Horsham, PA 19044.

I'm excited to tell you that Al Quaglieri has updated his QSL SIGNERS list as of November 30, 1993. If you have previously ordered this you'll want this release. If you haven't ordered it before, and are in the QSL hunt, get it now! I'm continually amazed at how much information Al has been able to condense into 17 pages. This is a must if you're serious about your OSL collection.

Sources for this excellent compilation include DX Listening Digest, FIDO Shortwave Echo, Fine Tuning, the rec.radio.shortwave newsgroup on Usenet, NASWA Journal, SPEEDX, and Shortwave Radio Today. Believe me, I haven't seen any other reference like this one.

That's all for now. I hope to see you ordering soon. Keep in style with the latest in hobby fashions from your NASWA COMPANY STORE.

Hope to see you all at the 7th Winter SWL Fest!

Kris Field

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Listener's Notebook

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All times are in UTC and all frequencies are in kiloHertz.

What's Listener's Notebook?—LN is my best effort to provide you an "executive summary" of developments and changes in the world of shortwave radio over the last month. LN also contains historical material as well. I include material of interest to both the beginner and experienced Dxer and in doing so we have several things going for us: 1—A subscription to BBC Monitoring Service reports. We are blessed as a club in being able to afford a subscription that costs the club hundreds of dollars yearly but provides invaluable Dx information. 2—A spirit of unity and friendship that affords us numerous exchanges of information with other clubs and organizations worldwide. Not only does NASWA exchanges bulletins with several clubs and newsletters worldwide, but this column is also exchanged via e-mail for some fine columns in other publications. I also receive a few bulletins myself. 3—A dedicated set of contributors. We have members such as Mike Fern who have been contributing extensively to this column literally for years. 4—Electronic mail allows contributions to come in and the column to go out with a timeliness that would have been impossible even a few years ago. 5—A fine NASWA team that does a super job in the paste-up, printing and delivery of the bulletin every month.

EDITOR'S NOTES—All times are in UTC, all frequencies are in kilohertz. Would the gentleman from Maryland who dropped me a note about the Central Maryland NASWA chapter please write. I am sorry but I deleted your note accidentally.

Mr. Tetsuya Kondo, a NASWA member and head of the Asian Broadcasting Institute (ABI), has kindly agreed to electronically forward Dx news. The ABI is based in Japan but is famous worldwide for its excellent shortwave news on Asia. In addition to collaborating with the WRTH, the Institute's reports are often featured on Radio Japan's Media Roundup. I am particularly grateful to Mr. Kondo since while the ABI publishes a 70 page monthly report it is available only in Japanese.

DEADLINE for the April LN is Friday, March 25th

ARGENTINA—Radio Nacional Mendoza 6180 has upped its power to 7.5 kW. Its canned ids include: Desde Mendoza, remanzo de la virgen del Carmen de Cuyo, Patrona y General del Ejercito de los Andes, transmite Radio Nacional and Radio Nacional Mendoza a traves de su onda corta en 49 metros, 6180 kilohertz y por la Cadena Celeste y Blanca en las bandas de 49, 31 y 25 metros (sic) con sus potentes emisores, lleva su mensaje comercial, informativo y de paz a todo el orbe, Radio Nacional Mundial. (Barrera Fine Tuning No. 724 January 30th)

AUSTRALIA—ABC-Perth As the areas around the transmitters became more populated, their powers were reduced from 50 to 10 kW. If this service is revived, the transmitters would have to be renewed and moved away from populated areas. (Larry Magne February 1st)

According to the station, they received about 200 calls/faxes about discontinuing the service. ABC directors were to meet with the Premier of Western Australia to discuss the viability of VLW. (Martin OZDX January-February)

Now that the ABC stations in Perth and Brisbane have left the air, let's sum up their history: Bald Hills (Brisbane)—If you travel the main northern highway, just twelve miles out of Brisbane, you will see the Bald Hills radio station with its transmitter building located quite close to the road. The first shortwave transmission from this location took place or. February 17, 1943, over a new 10 kW transmitter. This unit was allocated the recycled VLO call from Pennant Hills Radio Station which had just been closed. The Q in VLO stands for Queensland. The station's purpose was to give reliable coverage to in the interior of Queensland as well as some of the Northern Territories, Programming was taken from two Brisbane medium wave stations. However, because of the skip distance evident the coverage from this shortwave transmitter, another units was installed six years later. This service, experimental at first, was designed to cover nearer country areas northwest of Brisbane. Thus it was that on September 7, 1949, the second callsign, VLM came onto the air at the Bald Hills location. The first tra ismitter was a temporary low-powered unit at 200 watts which was replaced by a permanent 10 kW unit on January 25, 1951. Some twenty years later, in 1968 an additional 10 kW unit was installed at Bald Hills, replacing the original VLQ, which was an old water-cooled cage type transmitter. The old unit was now relegated to stand by service. The VLQ transmitter was used without callsign by Radio Australia's service to Papua New Guinea from 1971-76. The shortwave antenna at Bald Hills consisted of two half-wave folded dipoles with reflectors at 310 degrees for coverage of the outback. In addition, there were two rhombics at 340 degrees for use in the Radio Australia service beamed to Papua New Guinea.

Wanneroo (Perth) Radio Station—This station goes back to the days before World War Two. It is located some 15 miles Northwest of Perth and it was originally intended to be a large mediumwave installation for Australia's ABC network. The first shortwave transmitter, a 2 kW unit, was installed in 1939. The W in the VLW call stands for Western Australia. The first programs were taken from two mediumwave stations. When the Second World War began, the small transmitter was diverted

for service as part of the shortwave network of Australia Calling, the forerunner of Radio Australia. Radio Australia stopped using this site for a while when Shepparton was commissioned in 1945. The station was totally rebuilt in 1959 with new transmitters and antennas. Three transmitters were installed, two of 10 kW and one of 50 kW. Radio Australia again used the site from 1963-73. (Adrian Peterson Radio News Bulletin December)

BOLIVIA—Takayuki Inoue Nozaki continues his review of Bolivian stations in Relampago Dx No. 53 for January:

La Palabra 4903.9 usually ids with its slogan La Palabra, paz y bien para todos los vuestros hogares. The station is scheduled from 1200-1800 and 2100-0045 (Sundays 1200-1345 2300-0045). The transmission usually starts out with the Lord's prayer presented directly from the cathedral. They also have Mass on Sundays from 1200-1345 and 0000-0045. Programs also include religious and light music, sermons, rosary, hymns, prayers and some transcription service. You can try sending your reports to: La Palabra c/o Parroquia de Santa Ana, entre Ayacucho y Bolivar, Santa Ana del Yacuma, Provincia Yacuma, Departmento del Beni, Bolivia.

Radio San Miguel 4925v has a 5 kW transmitter made in Spain with a 1 kW Collins for a backup. This is a Catholic station whose mission is to educate the rural and urban poor. Their official schedule is 0900–0300 (Saturdays till 0330 and Sundays 1000–0130). The morning newscast is La Voz de Selva (1000–1030 except Sundays) and the evening one is La Voz del Norte (0000–0030 except Sundays).

Radio Illimani 4945.1 this is the quasiofficial station of the government, located in the Ministry of Information building. They use the slogan Bolivia and have the following jingle id every half hour: En el aire Radio Illimani Bolivia. Con el despertar de la vista al calor del hogar con corazon americano, Illimani, corazon de America, Bolivia. De norte a sur, de este a oeste, por nuestro amor, amistad, la patria, y America del Sur, estimos contigo, Illimani Bolivia, Illimani Bolivia.

Radio Juan XXIII 4965 operates from 0900-1430 and 1730-0000 using a 1 kW

Contel transmitter into a half-wave dipole 15 meters high.

Radio Maria Auxiliadora 4974.8 is inactive and they plan to sell their equipment to another station.

Radiodifusora Mineria 4980.8 their 1 kW transmitter is generally operated at half power.

Radio Animas 4991.1 is on from 1030–1700 using a 1 kW Sparta transmitter into a half wave dipole ten meters high. This is the official voice of the miners of Animas.

Radio Libertad 5004.7 is on irregularly but suffers from poor modulation for technical reasons.

Galaxia Radiodifusion 5156.2 is a rare catch, broadcasting from the Bolivian Amazon basin. The transmitter, remade by the owner, is based on a Heathkit Model DX608 SSB amateur transmitter with a maximum output of 120 watts but operated at about half that. The station was getting QRMed on its nominal frequency of 4890 so it got permission to move and operate provided that it stayed under 100 watts and did not interfere with utility stations. Their schedule is 1200-2000 and 2300-0230 (Sundays 1200-2000 or 2200v depending if they are relaying soccer). Although this is a commercial station, they have about 30 % religious programs as the owners are quite religious. Every half hour they have the following canned id: Amables oyentes de Bolivia y el mundo, esta es Radio Galaxia, la joven sintonia, transmitiendo desde la ciudad de Guayaramerin, Departamento del Beni, en la Republica de Bolivia, America del Sur. Trabajamos en 5160 kHz CP218 banda internacional de 60 metros, onda corta. Guayaramerin es una bella ciudad ubicada en plena floresta amazonica a orilla del Rio Mamore. Although the station has not been a good verifier in the past you may want to give it a shot as MARCH 21ST is their 10th anniversary. Send your reports to Carlos Arteaga Tacana. Casilla Postal Guayaramerin.

Radioemisora 2 de Febrero 5505.1 is named after the founding date of the city of Rurrenabaque. Although they have a home brewed 500 watt transmitter, they are currently using a 100 watt G & M Equipment Company transmitter. Their schedule is 1200–1530 and 0000–0230 weekdays, off Saturdays and 0000–0200 UTC Monday. Take care as they

announce their "authorized" frequency of 5020 in their canned announcements.

Radio Batallon Colorados 6185 has been off the air for quite some time but reception reports can be sent to Tcnl. Com. Ramon F. Olmos Eguino.

Radio Emisora 16 de Marzo 4865 a report to Casilla 821 was returned by the Bolivian post office. (Wilkins Fine Tuning No. 725 February 10th)

Radio San Miguel 4925 heard 1009–1035 2/6 with live church service. Songs sung to lite pop, ranchera, & classical tunes—quite a mix! Lots of "Gloria, Gloria, Hallelujahs" (sung to the tune of the Battle Hymn of the Republic). Into sermon by priest with a very definite gringo accent, although good Spanish. Asked for prayers for Radio San Miguel, Radio Centenario, Radio Abaroa, and "la senal de la Santa Cruz", assumedly Radio Santa Cruz. In 1985 in Cochabamba, I met a priest who was on his way home to Rochester, NY after 10 years in the Riberalta area. He said a replacement from Rochester was on the way. (Don Moore)

BOSNIA—Radio Bosnia-Hercegovina 6890 noted operating on this new frequency in USB in the as early as 2310 and as late as 0230. (Crawford DX South Florida No. 319 January 27th)

BRAZIL—Here's a report from Takayuki Inoue Nozaki, who is currently traveling in Brazil:

Radio Caraja 4885 is on from 0700-1100 and 1900-0200 using a Indelmon TBI-OT1 Brazilian made transmitter of 1 kW.

Radio Anhanguera (Araguaina) 4905 is still off the air due to transmitter fault. They use a SNE BTA 1000D 1 kW transmitter.

Radio Anhanguera 4915 has a special program for rural listeners from 0800-1300 and 1600-2100. At other times between the 0700 sign on and 0200 sign off, the station is parallel to 6080 and 11830.

Radio Difusora de Jatai 4935 has reactivated.

Radio Brasil Central 4985 is on from 0600-0200 and on 11815 from 0800 to 2100. The station was founded on March 3, 1953 as Radio Journal do Brasil Central.

BURUNDI—Radio Burundi 6140 appears to have gone off the air and has not been heard since 25th January. (BBCMS Summary of World Broadcasting No. 6 February 11th)

CAMEROON—Radio Garoua 5010 has reactivated. (Tony "Iron Man" Orr February 12th)

CANADA—CFCX 6005 originally operated from Dummondville, Quebec from 1930 to 1932 when the location was changed to the Mt. Royal Hotel in Montreal. The station was closed from 1948 to 1963 when it recommenced operations from Kahnawake. They use a Marconi TH117 transmitter using a Lazy Hantenna beaming 340 to 160 degrees. (Shortwave Radio Today January via Richard "Quake" D'Angelo)

CENTRAL AFRICAN REPUBLIC—

The Russian Ambassador to this country said that Russia is ready to help in revitalizing the infrastructure at the CAR radio and television, according to the station on January 15th. (BBCMS Summary of World Broadcasts No. 3 January 21st)

CHAD—Radio Nationale 4904.5 heard signing on late at 0455 rather than 0403. (Peterse 1, Palandra Shortwave News February)

Radio Moundou 5286 noted here with improved signal, power increase? (Schulze Fine Tuning No. 725 February 10th) Best shot for us is 0500 sign on. (HJ)

CHINA—Current schedule for *Qinghai PBS* is: Daily 0355-0630 0855-1505 2225-0030 and Sundays 0030-0355 all on 6260 3950. (BBCMS Broadcasting Schedules No. 2 January 14th)

Qinyhai PBS Tibetan Service is: 0355-0545 1(55-1540 2225-0055 on 6500 (ibid.)

Sichuan PBS 1st Program 2100-1600 7225 6060 (ibid.)

Sichuan PBS 2nd Program in Tibetan as well as Chinese: 1025-1345 2155-0555 5900 (ibid.)

CLANDESTINES—AFRICA—Voz da Resistencia do Galo Negro 11850 started tests here or 25 January between 1050 and 1400 GMT. (BBCMS Summary of World Broadc 1sts No. 5 February) Heard signing on at 0446 on 9550 and weaker parallel 4960. Big Ben chimes and news at 0600. The only time a full id was given was at sign on, otherwise they had *VORGAN* ids. Also heard on 7290 until 2106 with English ids prior to this. (Brian Alexander February 6th)

Excerpts from *Radio Muhabura* in Kinyarwanda on January 29th:

The killings, terrorism and other bad things which have been going on in our country, increasingly in Kigali, are set to cut short the peace that Rwandans were about to enjoy. Last Friday [28th January). the government brought into the country a large quantity of arms and ammunition. Unamir [UN] Assistance Mission to Rwandal is said to have known this but it is still awaiting explanations [from the government] which are forthcoming.... There is also an anti-Unamir plot involving Radio RTLM [an FM radio station in Kigali belonging to the Coalition for the Defence of the Republic, CDR, party which supports President Habyarimana]. It is said that the same [anti-Unamir] messages are also being broadcast by Radio Kigali [the term used by Radio Muhabura to describe the stateowned Radio Rwanda]. The plan is to use terrorism to make the work of Unamir difficult...Meanwhile, the American Human Rights Watch organization has recently expressed its concern and has asked the international community and all international organizations to stand up and stop anything which could bring about a resumption of hostilities between the armies of both parties [the government and the RPF]. This, as you have just heard, arises from the provocations by the Rwandan government bringing arms, ammunition and other military equipment into the country, clearly bringing to light the plan to cause a war in the country...(BBCMS Summary of World Broadcasting No. 4 January 28th) Watch for the peace accord to break down. (HJ)

Free Radio Voice of Ethiopian Unity, which since 17th November 1993 had been heard broadcasting at 1600-1700 on Sundays and Wednesdays on frequencies used at 1500-1600 by Radio Moscow's Amharic service, was last heard on 26th January. Neither Free Radio Voice of Ethiopian Unity nor Radio Moscow in Amharic are heard on their previously-used channels of 11666 or 11695.

However, *Radio Moscow's* Amharic service continues to be heard at 1500-1600 on 21785 and 15205. (ibid. No. 6 February 11th)

CLANDESTINES—ASIA—Follow up to last month's *LN: Forum of Democracy* is sponsored by the Vietnam Restoration Party and originates from California. The program's sponsor aims to promote democracy in Vietnam, which is the main target area. Forum For Democracy can be heard daily from 1400-1430 on 9930. (Jeff White February 6th)

Radio Irina The post office box of N-174 has been closed. (Kusalik Numero Uno No. 1257 February 4th)

CLANDESTINES MIDDLE EAST-The Voice of Iraqi Kurdistan, the radio of the Kurdistan Democratic Party Aira Dengi Kurdistana Iraqiya (Kurdish), announced at 1545 on 29th January that from 1st February 1994 it would begin its morning transmission at 0345 and its evening transmission at 1345. This new schedule was confirmed on 1st February. The 0345 transmission ended at 0500 while the 1345 one ended at 1600. Both transmissions start 15 minutes earlier than previously. broadcasts are in Kurdish except for the last 20-30 minutes which are in Arabic. The radio continues to be observed on 4180. (BBCMS Summary of World Broadcasts No. 5 February 5th) This station broadcasts in support of the Democratic Party of Kurdistan and its leader Mas'ud Barzani. The radio has been heard irregularly since 1965. Transmission times are often extended and frequencies are subject to change, (ibid. Broadcasting Schedules No. 2 January 14th)

Voice of Islam, Voice of the Islamic Movement in Iraqi Kurdistan was first heard with "experimental" broadcasts on 2nd January 1994. The broadcast on that day contained a statement signed by "the political bureau of the Islamic Movement in Iraqi Kurdistan". By 11th January 1994, the radio seemed to have started regular broadcasts. It also added the phrase, "Voice of Islam" to its station name on that date. The radio claims to broadcast on five channels, on 77, 73, 69, 47 and 42 metres. Their schedule is: 0500–0630 and 1230–1400 on 6410 4320 4105. (ibid.)

Voice of the Iraqi People, which describes itself as the radio of the Iraqi Communist party,

was observed with broadcasting in Arabic in progress at 0410 on 2nd February on 7095. The transmission ended at 0500 GMT with the following announcement: "With this, dear listeners, we come to the end of our programmes. We hope to meet you again in a new daily programme at 1700 on two shortwave frequencies on 41 and 75 metres. This is the Voice of the Iraqi People, the voice of democracy and progress, the radio of the Iraqi Communist Party (Arabic: Huna Sawt al-Sha'b al-Iraqi, sawt al-dimuqratiyah wa al-taqaddum, idha'at al-Hizb al-Shi'yu'i al-Iraqi). (ibid.)

Voice of Rebellious Iraq was heard on 31st January on a new frequency, 5555. The radio carried a news summary in Arabic at 1725 and a full news bulletin at 1812. It signed off at 1823 with its usual closing announcement but without giving broadcasting times or frequencies. The previously observed frequency of 7090 and was untraced. (ibid.)

Voice of Iranian Kordestan Ayra Dangi Kurdistani Irana (Kurdish) was first heard in 1973. It supports the Iranian Kordestan Democratic Party and announcements have stated that it is the "voice of democratic revolutionaries who are struggling to end the infiltration of imperialism, and especially American imperialism, to overthrow the reactionary regime of the Islamic republic, and to establish democracy in Iran and autonomy for Kordistan." All frequencies vary widely to avoid interference. Previous frequencies used by this station include: 7360, 7050, 5080, 4890, 4665, 4650, 4065, 3945-3965 and 3935 kHz. Frequencies may not be exactly in parallel—there can be a delay of several seconds between transmitters. They broadcast in Kurdish and Persian on following schedule: 0230-0300 1000-1030 1630-1700 4260v. (BBCMS World Broadcasts Schedules No. 3 January 21st)

CLANDESTINES — WESTERN HEMISPHERE—Radio Miami International still airs several programs via WHRI in Indiana and WRNO in New Orleans. The following is a schedule of those programs. La Voz de Cuba 21 and the 2300–0000 broadcast of Radyo 16 Desanm are via WRNO; the other programs are via WHRI. Radyo 16 Desanm is in Haitian Creole; the other programs are in Spanish.

0000-050()	Tues-Sun	La Voz de La Fundacion	9495
01000130	Monday	La Voz de Cuba 21	7355
08000903	Mon-Fri	La Voz de Alpha 66	7355
1000-1300	Mon-Sat	La Voz de La Fundacion	9850
2200-2300	Mon-Fri	Radyo 16 Desanm	17830
2300-0000	Mon-Fri	Radyo 16 Desanm	7355
2300-000	Mon-Fri	La Voz de Alpha 66	9495

(Jeff White February 6th)

COLOMBIA—Emisora Claridad 3059.8 Harmonic, 3 x 1020 of a Medellin station, which is a Todelar affiliate. (Klemetz Numero Uno No. 1257 February 4th)

3184.3 Armonias de Risaralda A pirate announcing 1570 as the fundamental frequency. Located in Risaralda, Caldas. (ibid.)

5566.4 Putumayo Estereo Located in Mocoa, l'utumayo, this may be a pirate. (ibid.)

COSTA RICA—AWR operates one 5 kW transmitter using a Yagi antenna located in Alajuela on 11870v and five additional transmitters, three 50 kW and two 20 kW, are located at Cahuita on the Caribbean coast. They are currently inactive. (Radio News Bulletin January)

CUBA -According to Radio Reloj, since the beginning of the Special Period [a reference to the economic crisis since the break-up of the USSR], radio and television have taken on a much more historic role. This was stated by Josefa Bracero, vice president of the Cuban Institute of Radio and Television [ICRT], during an address at the Sixth Union of Cuban Journalists Congress. He explained that there are 55 radio stations in Cuba, many of which broadcasting the information newspapers used to publish. On the subject of the current role of radio, Bracero said that at the beginning of the Special Period radio broadcest 19 per cent of the news and today the figure is 33 per cent. Bracero added that radio broadcasts 292 hours of news daily with the highest audience for the Radio Reloj morning bulletins and the Radio Nacional news programme. (BBCMS Summary of World Broadcasts No. 1 January 7th)

Radio Habana 15195 new frequency, ex 17835 at 2130 in Spanish. (Brian Alexander February 6th)

EAST TIMOR—see PORTUGAL

ECUADOR—Radio Centinela del Sur 4770.3 signs off at 0328 with the national anthem. (Brian Alexander February 6th)

Radio Popular de Cuenca 4800 is off the air and needs tubes. (Klemetz Numero Uno No. 1257 February 4th) Given the tubes they need, it will take over \$1,000 dollars for them to get back on the air. (Elton Byington February 8th)

Escuelas Radiofonicas 5010.3 reactivated in early February. They had been off since last May and have been heard as late as 0300. (HJ February 1st)

Following up the February LN, OMS International needs to improve their Ecuadorian geography if they're going to build a shortwave station in Saraguro. They say the station is in the eastern part of the country. In Ecuador the east—or oriente—always refers to the Amazon lowlands which are in the eastern part of Ecuador. Saraguro is well up in the mountains in the southern sierra region, about 35 miles north of Loja. On the advice of a Peace Corps volunteer we met in Cuenca, my wife and I spent two days in Saraguro in 1985, including the traditional Sunday market day. The town is the center of a region inhabited by the Saraguro Indians, hence its name. Economically speaking, they are the best off group of Indians in southern Ecuador, Most of them used to specialize in jewelry-making handicrafts, but now a lot have gone into raising cattle. The Indians still dress in their traditional black and white clothing, including a dark black poncho held together with a huge stick-pin. One of HCJB's 1984 QSLs pictured a pair of Saraguro Indians. The Saraguros speak Quechua and are a remnant of the old Inca colonial policy. When the Incas conquered a new area, they would forcibly move some conquered people from a different area into the new location, and at the same time move some of the old inhabitants elsewhere. This sort of 'divide after conquered' approach helped in maintaining order among the conquered peoples of the empire. The Saraguros originally came from southern Peru but were

moved here in the late 1400s. The town of Saraguro is not all that large and very simple. I remember we paid about \$1.50 for a very basic but clean room, and, of course, cold water only. In places like that there probably isn't a hot shower in the whole town. But, it was a friendly place and a good way to see the traditional rural side of Ecuador. (Don Moore February 15th)

ERITREA—Voice of the Broad Masses of In spite of this country's. independence, a OSL was received by this interesting route. The verification signer was Mehreteab Tesfagiorgis and the report was sent c/o Tekeste Gr. Medhin, Box 2571, Addis Ababa, Ethiopia, (Ormandy New Zealand DX Times January) This radio was first observed as a clandestine station on 11th August 1980. It supported the Eritrean People's Liberation Front, hostile to the then-government of Ethiopia, and claimed to broadcast from liberated territory. The Republic of Eritrea was declared fully independent in May 1993 and was recognized as an independent country by the international community. VOBME is therefore now the official radio of the Republic of Eritrea. ID in Arabic: Huna Asmara, Idha'at Sawt al-Jamahir al-Iritriyyah ID in Tigrigna: Ezi Kab Asmara Zemehalalef Medeber Radio Demtsi Hafash Eritrea Evu. Transmissions usually start with a news bulletin. Here is their schedule of morning broadcasts: 1st Program 0330-0400 Kunama 0400-0500 Tigrigna on 7020 5000, 2nd Program 0330-0400 Afar 0400-0500 Arabic 7380 4000 (BBCMS World Broadcasts Schedules No. 3 January 21st)

GERMANY—Costs are prompting the Cologne-based radio station Deutsche Welle to cut its staff by 300 from 2,100 at present to 1,800 by means of an early retirement programme. The station's director, Dieter Weirich, told journalists in Cologne today that negotiations with the unions were currently in progress. He thought an early retirement programme offered scope for medium and long-term savings in view of the "massive cuts prescribed by Bonn" (BBCMS Summary of World Broadcasts No. 5 February 5th)

GHANA—Radio Ghana the exact address for reports is: The Propagation Engineer, GBC, Monitoring Station, P.O. Box 1633 Accra. (Kuhl Shortwave News February)

GREENLAND—followup to last month's LN: I did not send my report to Henrik Jorgensson's attention. Somewhere I read about a reply for a report send to the "Station Secretary". That's what did the trick. I suspect ol' Henrik never saw the report. Result=QSL!!! (Richard "Quake" D'Angelo February 12th)

HAWAII—KWHR those not content with a QSL via Indiana can reach the station at this address: LeSea Broadcasting Corporation, c/o Douglas W. Garlinger, Director of Engineering, Shortwave Radio station KWHR, "South Point", Naalehu, Hawaii (zip code). (Berg Numero Uno No. 1256 January 28th)

HONDURAS—Radio Litoral 4830 has been heard signing on at a later time of 1311. It had been heard as early as 1230. (Berg Numero Uno No. 1256 January 28th)

Radio Copan "Give us a dollar. We'll give world."—Following а advertising campaign offering blocks of airtime for US\$25 per hour, the station is now introducing an even lower-cost way for anyone to get his or her message heard on international radio. For only one U.S. dollar, Radio Copan is selling 60-second spots to anyone, anywhere in language. Advertisers, including shortwave listeners themselves, can use the 60second spots to promote their products and services, their ideas, DX clubs, pen-pal requests, or just to send greetings around the world. Buyers can record their own spots, or they can send advertising copy for Radio Copan to record (free of charge) in English or Spanish. More information can be obtained from Jeff White, Radio Miami International, P.O. Box 526852. Miami. Florida 33152 USA: or by faxing the station's Miami office at (305) 267-9253. (Jeff White February 6th)

INDIA—AIR news via the November DX Grapevine via the January–February OZDX:

Aligarh—the high power transmitter site at Jamalpur, near Aligarh will finally get a replacement for two of its four antediluvian transmitters with two new 250 kW ABB units.

Bangalore—this site has six 500 kW ABB transmitters but only two on the air at a time. Two of the units are not on line but may be ready as soon as an antenna beaming to Russia/China is erected. The remaining transmitters are on standby.

Guwahati—the two old 20 kW transmitters will be used in tandem for the VB service to the northeastern part of the country.

Panyabi—is testing with 2 250 kW ABB transmitters.

Port Blair—uses 7170 from 0230-0400, replacing 7180 which was interfering with AIR-Bhopal.

Alk Aizawl 5050 was logged at 1230 on 5 February, heard parallel to 4860. Although this station is listed at 50 kW, I believe this rarelyreported transmitter is very old and doesn't put out much of a signal. My first log of Aizawl after more than 10 years of trying!! This and certain other South Asian signals clearly enhanced by geomag storm which began circa 0900 with Boulder/Planetary K indices hitting 5 at 1200 / then 4 at 1500. Signals arriving on skewed path via due West Beverage, as commonly noted last season but infrequently this season for whatever reason. (David Clark) I might add that while a K index of 5 is poor for program listening, it is a boon for Dxers. (HJ February 13th)

INDONESIA—RRI Banda Aceh 2432.6 seems to be operating here as 3905 has not been heard for months. (Foster OZDX January-February)

RKI Samarinda 3295.4 is using a new transmitter in the 5-10 kW range here. 9614 has at parently left the air. (ibid.)

Ur identified Amatir 3792 was heard here at 1445 playing Indonesian pops. (ibid.)

RP1 Sibloga 5256.5 is now signing off at 1607, ex 1515. (ibid.)

IRAN—is to launch a new network called Sorush (Messenger) for Iranians living abroad. A transmitter site in Sirjan (in Kerman Province, southern Iran), to be known as the Sorush radio station with 10 shortwave transmitters. The first phase of this station will be inaugurated and put into operation at Id al-Fitr [festival due on or around 14th March 1994, god willing. Tests from the site were to have started on February 20th. An additional 21 languages of the external service will also be also be broadcast from this site. (BBCMS Summary of World Broadcasts No. 4 January 28th)

ITALY—AWR-Forli The shortwave station is a neat little operation, housed in a two story

Italian villa. The building was completely refurbished before it was fitted out as a radio station. The studios are located on the ground floor, and the programs are carried by a cable underneath the roadway to the transmitter building nearby. The transmitter is a *Collins 208-U* rated at 10 kW but running at 2.5. It was previously in use with the Swiss PTT. The antenna is a beam type rotatable log periodic, which takes only 30 seconds to make a complete rotation. Currently, because of local regulations, the beam is always set at true north. (Radio News Bulletin January)

IRRS Short Wave Radio Switzerland (SWR), a new station, started transmissions via IRRS on February 5th at 1200. The station is featuring a one hour International Music Radio's (IMR)-Voice of Basel transmission. SWR plans to continue their transmissions during 1994 with two one-hour transmissions at 1200 every month (repeated every second and fourth Saturday at the same time). SWR broadcasts will feature more of free radio programs previously heard only through pirate radio stations throughout the world. Short Wave Radio Switzerland is a non profit association founded in 1993 by enthusiastic shortwave dx-ers, whose basic aim is to encourage free radio programming Shortwave, and help small radio programmers to air through official, high power, legal stations. Alfredo Cotroneo, president of NEXUS-IBA, stated on the occasion: "We are aware that not all of these programs are strictly professional programs as most of those relayed by IRRS-Shortwave are, but we will try the best we can to help the most valuable producers to emerge, and, if possible, even try to get proper financing and sponsorship for them to continue. We have received clear indications also from our own listeners that an audience exists also for such productions, and we have missed the appointment until now, as every other major international broadcaster. NEXUS-IBA's charter contains indications on how to offer our services to special value and minority programmers; we want to continue to be a real international community radio, which maintains a very tight and personal relation with all European listeners, and this is a splendid opportunity for us to fulfill our aims." NEXUS-IBA has offered SWR Switzerland their lowest rates

and a dedicated segment as an encouragement to so called underground free radio or pirate radio productions to emerge by means of a legal and powerful media. In relaying these programs, NEXUS-IBA does not directly or indirectly endorse the principle or right of freeradio producers to air via unregulated, unlicensed media (pirate radio), but, on the contrary, intends to offer IRRS-Shortwave as a legal media and an excellent arena to be heard and judged for the value of their productions. Professional consulting will also be available to free radio producers as to all NEXUS-IBA program producers to help them improving the quality of their programs. Located in Milano, NEXUS-International Broadcasting Association is a strictly non-profit association founded under Italian Law that operates IRRS-Shortwave to Europe. NEXUS-IBA, which is designated as an independent "Community Broadcaster", according to the Italian Broadcasting Law of 1991, makes available broadcast time at cost to members of Association, with ກດ advertising on the air and, currently, with no corporate underwriting. IRRS is on the air from 0600-2100 daily and can be reached on Compuserve at 100020,1013. SWR is located at: SWR-Switzerland, PO Box 35, CH-6027 Romerswil, Switzerland, (Al Controneo February 5th via Ralph Brandi)

JORDAN—Radio Jordan was heard putting out spurs on 9320 9490 9660 10000 10170 10340 from fundamental 9830. Note 170 kHz separation between each. (Brian Alexander February 5th) Also heard on 5000 with probably a feeder service with id until 2300 sign off. (Kuhl Shortwave News February) So it looks like by previous log of Sudan here was a mistake. See January LN. (HJ February 16th)

KOREA—The two Koreas make fascinating listening now, with the Cold War over, the situation between North and South reminds one of Cold War days, jamming of transmissions from Seoul is common and at times will begin during a particular item, such as recently when the South began a commentary on relations with the North, up came the wobble type jammer. (Rhodes Dx'ers Calling December via Fred Kohlbrenner)

KYRGYZSTAN—In late December, A Turkish delegation visited the national TV and radio company of Kyrgyzstan. Under discussion was the long-term programme for co-operation in the field of TV and radio communication. The Turkish side intends to render financial and material support to Kyrgyzstan's TV and radio broadcasting for at least ten years. (BBCMS Summary of World Broadcasts No. 1 January 7th)

LIBERIA—ELBC 7275 signs on at 0655 but has poor modulation. (Brian Alexander February 6th)

MEXICO—XELO 2020 this harmonic continues to boom in in Arizona. (Steve Schmidt February 13th)

MOLDOVA — Radio Moldova International operates on the following schedule via transmitters in Romania: Weekdays 0130–0155 7190 Romanian, 0230–0255 11775 Spanish, 2000–2025 7235 French; 2100–2125 Spanish 7245. Tuesdays through Saturdays: 1100–1124 17775 Spanish, 1200–1225 15250 Spanish, 1300–1325 15390 Romanian, 1400–1425 11775 French. Reports to the station should be in French or Spanish. (Bill Matthews' Dx Report January 9th)

NEWFOUNDLAND - CBC shortwave. Back in 1939, a 300 watt Canadian Marconi transmitter was installed with station VONF, the local mediumwave outlet of the Newfoundland government. The original callsign of this outlet was VONH and many Dxers in other parts of the world QSLed it. At the time of confederation in 1949 the callsign was Canadianized to CBNX and in 1966 it was changed again, this time to the current CKZN. The shortwave transmitter is located at an old navy transmitter site used during World War Two. In 1985, a new 1 kW transmitter was installed and the antenna system was reengineered. The antenna is a double verticallyopposed folded dipole, that is, a passive reflector and an active radiator, beamed northward. Interestingly though, CKZN takes a program feed via satellite from the CBC FM station at Goose Bay, because Labrador is the coverage area of transmissions. This long routing of the programming produces a quarter delav between the shortwave transmitter and the rest of the network in

Newfoundland and Labrador. (Peterson Contact November via Rich D'Angelo)

NEW ZEALAND—ZLXA 3935 is running 900 watts. The new frequency of 5960 was scheduled to go on the air in late February. Try around 0600. (Ross Numero Uno No. 1256 January 28th)

NIGERIA—Radio Nigeriu-Enugu 6025 their transmitter site is at Miliken Hills outside the city where they use a 10 kW transmitter and a folded dipole antenna. (Sams Fine Tuning No. 725 February 10th)

PERU—Radio Los Andes 4750 has reactivated and is operating here now rather than or 4775. (Jakobsson Shortwave Bulletin No. 1243 February 2nd)

Radio Maranon 4834.9 is putting out spurs on 4781.3 and 4888.5 (Klemetz Numero Uno No. 1257 February 4th)

Radio La Hora 4855.2 slight change, down from 4858. (HJ February 6th)

Radio Mundo 5082.6 puts out an occasional spur on 5178v. (Klemetz Numero Uno No. 1257 February 4th)

Radio La Voz de Andamachay 5547.2 is a new station located in a village of the same name in the Cortegana district of Celendin province. Schedule seems to be about 2330–0100. (ibid.)

Radio Ilucan 5612.5 noted back here by January 5th. (ibid.)

PIRA FES—EUROPE—Radio Atlantis was raided in late November and studio equipment was confiscated. Additionally, the last two mail drops for this station were prosecuted for "having letters sent to an address which was not a legal or registered radio station." Both received fines in the hundreds of dollars. (Barraclough Contact January via Richard D'Angelo)

Raaio Stella International is selling air time for 10 dollars an hour. The station will use 3902 and 6810 starting in May via a new 150 watt AM transmitter. The station can be reached at: 82 Pentland Place, Kirkcaldy, Fife, Scotland. (Lobdell Numero Uno No. 1258 February 11th)

see ITALY

PORTUGAL—Radio Portugal is to have a special program for East Timor is going to

start receiving a radio programme in Portuguese. It will be broadcast daily from 1100-1200 and it was schedule to be launched at the beginning of February. It will be a onehour programme exclusively dedicated to East Timor and the problems of the Timorese people. It will be transmitted in Tetum and Portuguese. There will be one journalist. Samuel Ornelas, who will speak in Portuguese and two translators into Tetum. They are two Timorese, one is a young lady who studied international relations here in Portugal and has been here for some time. The other is Domingos Seixas, who returned from Timor about a year ago and therefore has extensive knowledge of the resistance, he was even held for 11 years at Cipiang prison, where Xanana Gusmao (jailed Timorese resistance leader) is currently held. They will translate the text into Tetum. The programme will be made up essentially of three parts, shall we say. The first 30 minutes will have news read in Portuguese and then translated into Tetum. There will be a feature which will vary each day. One day it will be about Timorese history and culture—we will try to tap into the sources which can provide us with this information. Another day it will have interviews with people linked to the problem of Timor, of the Timorese. A third day will have memories of the Timorese community both here in Portugal and in Australia. A fourth day of the week will be dedicated to a type of course, in inverted commas, on human rights, international law, international organizations dealing with human rights. On a fifth day there will be a feature on speaking Portuguese. I will be called "In the World of Words" and is produced by Dr. Antonio Marteleira. It will try to make up for the fact that for some years now there has been no Portuguese school in East Timor. (BBCMS Summary of World Broadcasts February 5th) WRTH gives 17595 as frequency. (HJ)

ROMANIA—The general directors of the Romanian Radio Broadcasting Company and Radio France Internationale (RFI) have signed a cooperation protocol between the two radio organizations. The protocol provides for the furthering of cooperation intended to ensure a better knowledge of realities in each other's countries and the Francophone world. The protocol also covers the mounting of live

simultaneous broadcasts in cooperation with RFI's Romanian service. The cooperation agreement also includes a number of music programmes and French language lessons to be offered by RFI to Romanian listeners. (BBCMS Summary of World Broadcasts No. 6 February 11th)

RAMADAN—Correction to a typo in last month's LN: Ramadan started on February 11th, so starting tonight you're gonna be treated to lots of special programming and extended hours on shortwave from most Islamic countries. Enjoy! By the way, the lunar year is around 354 days long which makes it 11 days shorter than the solar year. That's why Ramadan started last year around Feb. 22nd and this year on Feb. 11th. Expect it to start around Jan. 31st next year. Ramadan by the way is 29–30 days long (moon cycle). (Hadi via Ralph Brandi, Tom Sundstrom, David Clark February 11th)

RUSSIA—AWR According to a BBC survey, the programs of AWR come in at the top position for religious broadcasting in the Rüssian republics. (Radio News Bulletin January)

Radio Alef 12075 is probably transmitted from a former jamming transmitter located at Balashika (Martin OZDX January-February)

The Krasnodar transmitter site is located at its own self-contained community. Some 1500 people live in the area as staff at the station and for community support. The site has 30 Chinese-made transmitters. The antenna farm consists of 60 curtains, half of which are 4 x 4, the remainder are 4 x 8 and 8 x 8. (Radio News Bulletin January)

Voice of the Assyrians continues to broadcasts on Wednesdays and Sundays on 5905 and 12075 from 1600-1700. Programs are in Assyrian and Russian. (BBCMS World Broadcasts Schedules No. 3 January 21st)

The State Company of Broadcasting and Communication No. 2, located in St. Petersburg, informs listeners that programs relayed via their centers in St. Petersburg and Kaliningrad will be verified by a special QSL card. Send your reports to this address: GPR-2 Verification QSL service, Akademika Pavlova St. 13A, St. Petersburg 197376. Send 2 IRCs for return postage. Their fax number is (812) 234 29 71. While they have an extensive

schedule, try these times: Kaliningrad 5905 0500-0800 9680 0830-1100 both Radio Moscow World Service St. Petersburg 5950 2130-2300 7300 2200-2300 9705 0200-0600 9890 1300-1900 12070 0830-1300 all Radio Moscow World Service. The center plans to create its own radio relay service in the near future and invites broadcasters to rent time on their facilities. (Tomofeyev Shortwave News February)

Petropavlovsk-Radio transmitters in Kamchatskiy and in Anadyr were switched off on 20th January 1994 until electricity bills are paid. Radio centres in Moscow oblast, and some of the Voice of Russia radio centres transmitting programmes abroad, as well as radio centres in Vladivostok and Chita, have been warned that they may be switched off as well, (BBCMS Summary of World Broadcasts No. 5 February 5th) The same thing happened at Radio Centre No 5, the westernmost in the country and, since Ukraine's secession, also the biggest, is located in Kaliningrad oblast. It is from here that Radio Moscow's programmes in English, German and French, together with those of Mayak radio, bring the voice of Russia to the whole of Europe, and on shortwave to the republics of the North Caucasus. (ibid. No. 6 February 11th)

RWANDA—Radio Rwanda 9610 Heard start of English program at 1602 with news and then English by Radio program. (Thompson OZDX January-February) The station is now playing their opening/closing announcements in English in addition to other languages. Try 15340 at 2100 or 9610 at 0300. (HJ February 8th)

SEYCHELLES—FEBA receives 50,000 letters a month. (Radio News Bulletin January)

SINGAPORE—Radio Singapore International 9530 at 1100 in English provides the best reception here. (HJ) The station is using six 250 and one 100 kW transmitters. (Martin OZDX January-February) Listeners to RSI were invited to write or fax their comments to: Radio Singapore International. Service. Farrer Road, PO 5300. Box Singapore 9128; Fax: 65 2591380. (BBCMS Summary of World Broadcasts No. 4 January 28th)

SOUTH AFRICA—Capital Radio 7149 Durban 20th January: While right-wing Radio ponders its future following Thursday's court setback, Durban's Capital Radic has been struggling to survive for years on inferior frequencies. "We've been law abiding citizens and we still haven't got a licence (to broadcast on FM)," says Capital's MD [Managing Director] Herbert Jikela, "But they (right-wing stations) are able to get away with defying the existing government..." Mr. Jikela, who has been with the station through its sometimes difficult 14-year existence, says the government's "kid gloves" approach to recently established pirate stations "shows the extent to which the South African authorities have lost control over the right" Capital has to with inferior mediumwave do transpaitters situated in Transkei while it waits for the Independent Broadcasting Authority to consider its application to broadcast on FM in South Africa. The station's FM transmission in Trans (ei has made it increasingly popular there, while there has been a decline in listeners outside its borders where they're able to tune into crystal clear South African Broaucasting Corporation stations. This has led to a drop in advertising with the result being an approximately R[Rand]4 million subsidy a year from the Transkei government which has declared the station a parastatal organization. (BBCMS Summary of World Broadcasts No. 5 February 5th)

Radio 2000 4810 Heard at 0136 with live relay of CNN International satellite TV audio. Presumed that station was relaying network TV audio which in turn is relaying CNN audio. (Shart DX South Florida No. 320 February 10th)

SUDAN—see JORDAN

SWITZERLAND—see ITALY

THAILAND—Radio Thailand 4830 is now signing off at 1633, ex 1600. (Foster OZDX January-February)

USA--Radio Free Europe/Radio Liberty studios in Munich, Germany started a new service in South Slavic languages service (Serbo-Croat: Radio Slobodna Evrope, program na juznoslovenskim jezicima) beamed to the former Yugoslavia on January 31st. Frogramming by a staff of eight veteran

journalists from Serbia, Croatia and Bosnia will air two hours daily, 1700 and 2100 on 5985, 7115, 7145, 9695, 11815 and 15370. The Munich staff will draw on its own network of correspondents in the former Yugoslavia and throughout Eastern and Western Europe, as well as the United States. Radio Free Europe's new South Slavic language service will devote most of its programming to voices and views from within Serbia, Croatia, Bosnia and other Yugoslav successor states. This internal emphasis will complement programmes of the Voice of America and other international broadcasters. which emphasize international affairs and news and opinion from their sponsoring countries. The new South Slavic language service is expected to cost about 1.2 million dollars a year. RFE/RL's current budget is 208 million dollars. It is expected to fall to 75 million dollars beginning in October 1995. (BBCMS Summary of World Broadcasts No. 4 January 28th)

Radio Free Asia Plans for the station passed through the Senate on January 25th. China, North Korea and Vietnam all viewed the station negatively. (ibid.)

Voice of Historic Adventism The buyers of WCSN maintain that they are the real Seventh-day Adventists. Verification signer is Gordon Simkin. Others who had been interested in purchasing WCSN were Ross Perot, "a Catholic broadcasting company" and AWR. A possible new callsign is WVHA. Their fax number is 904-735-4055. (Berg Numero Uno No. 1257 February 4th)

A letter received on February 15th from *Monitor Radio International* say "Effective January 17, 1994, another broadcaster, Prophecy Countdown, will air their programs on *WCSN* during times when Herald Broadcasting is not on the air. Prophecy Countdown is solely responsible for the content of its broadcasts and the views expressed in them are not necessarily those of *WCSN*.

"In September 1994, we anticipate broadcasting from WSHB in South Carolina to those areas now receiving a signal from WCSN. Additional information on the expanded broadcasts from WSHB will be provided in the future." I find it interesting that Monitor Radio is "distancing" itself from

Prophecy Countdown. Also, it is interesting what is NOT said. No mention in their literature as to why Prophecy Countdown is broadcasting on WCSN or why Monitor Radio will only be heard from WSHB's facilities in September. Not very open and honest with their listeners or are they afraid a hint of financial trouble could heard their reputation? (Richard "Ouake" D'Angelo February 16th)

KWHR's location is latitude N 19 01' 43" and longitude W 155 10' 14". (ibid. February 12th)

WEWN began its second year on the air by issuing a newsletter called "Gabriel's Horn". The four page principally presents the station's program line-up but does contain some interesting information about the station: celebrated first year on the air on December 28, 1993; the station was in final final stages of construction when it opened with broadcasts to Europe; commissioned three more transmitters and now offers programming in 20 different languages. (ibid.)

WINB 15175 blew a tube and was off about a week, returning by February 5th. (Brian Alexander)

WWCR was apparently knocked off by the ice storm as it was off on February 11th. (HJ February 13th)

UKRAINE—VOA 4940 According to Dan Ferguson, Ukrainian Radio uses VOA programming as a filler from 2100-2200. VOA will QSL. (Martin OZDX January-February)

URUGUAY—Radio El Spectador Following up to the September LN. Reports send to the embassy will be forwarded to the station's correspondent in the United States. He is Carlos Banales and his address is: 5601 Seminary Road, Apt 806-N, Falls Church, Virginia, 22041. (Hankinson Shortwave Radio Today January via Richard "Quake" D'Angelo)

SODRE 9620 is scheduled 1000-0300. Also operating on 6125. (Howard Numero Uno No. 1257 February 4th) VANUATU—Radio Vanuatu has reduced its shortwave schedule: 1900-2300 3945 2200-0700 7260 0600-1115 (Sundays 1000). (Tetsuya Kondo Asian Broadcasting Institute February 16th)

YEMEN—Radio Yemen-Sana'a As noted by Stephen J. Price last month, after a run of about four months, English from Sana'a ended in the middle of January. Keep in mind that this transmission at 2110 on 9780 was actually a repeat of a transmission originating in Aden. While the two Yemens unified in a few years back, there have been growing tensions between the north and south over the last few months, including troop movements. The BBC described the situation in Yemen as explosive. Perhaps the end of the transmissions is related to these tensions. (HJ February 3rd)

ZAIRE—Radio CANDIP I have noticed logs of this one by both Kris Field and Tony Orr during February. This is your best (and probably only) shot to get Zaire right now. Try 5066.3 at 0330. (HJ)

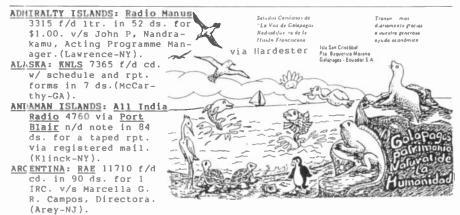
ZAMBIA—Radio Zambia Thanks to a Tony Orr tip, I noticed that Zambia has fixed the former "whisper" modulation on at least two of its transmitters in early February. Now the audio is as strong as the carrier and they can be heard quite regularly in North America: 4909.8 Vernaculars service 0245–2210v Listen for the Fish Eagle interval signal. 7234 English Service 0300–2200v Nice adverts! You will probably have to tune in sideband to get this one. (HJ February 7th) The vernaculars service has English news at 1800. (Bue Shortwave Bulletin No. 1243 February 2nd)

ZANZIBAR—Voice of Tanzania-Zanzibar 6015 suspended its morning transmission from 0300–0500 on February 3rd until further notice because continuing work on the transmitter on 585 had led to the station was unheard on shortwave (sic). The station will continue to operate on 6015 from 1100–2000. (BBCMS Summary of World Broadcasts No 6. February 11th)

ESSL Reports

Sam Barto 47 Prospect Place Bristol, CT 06010





ARMENIA: Radio Yerevan 11920 f/d cd. w/ schedule in 78 ds.(Lane). ASIATIC RUSSIA: Radio Nederlands 7260 via Petropavlovsk f/d "Happy Station Team" cd. in 55 ds. for \$1.00. Sticker and schedule rcvd.(Comeau-MA). 9855 via <u>Vladivostok</u> f/d cd. in 26 ds. v/s Asbari N. Krisna, Indonesian Section. (Buer-FL). Radio Moscow 17690 via Komsomolsk f/d cd. in 58 ds. (Turnick-PA). 15130 via Chita f/d cd. ir. 58 ds. (Turnick).

AUSTRALIA: Radio Australia 9580 f/d ltr. w/ schedule, postcard and calendar in 34 ds. for 1 IRC.(Lane). 21740 via Shepparton f/d cd. in 51 Js. w/ schedule.(Humenyk-ONT). Australian Armed Forces Radio 9193.5 via Belconnen f/d 1tr. w/ site and prepared cd. in 32 ds. for \$1.00

(returned). v/s Deb Elsworth, Presenter.(Rigas-IL). VLO9 9660 via Brisbane f/d cd. in 1 mo. after a f/up rpt. for rcvd. (Millard-TX).

\$1.00 (returned). Sticker and schedule AUSTRIA: Radio Austria International 13730

f/d ltr. in 17 ds.(Humenyk-ONT).

AZERBAIJAN: Radio Baku 15240 n/d cd. in
173 ds. for \$1.00.(Comeau-MA).

BAHRAIN: Radio Bahrain 9746 p/d postcard in 38 ds. for \$1.00. v/s A. Suliman, Director. (Clar-NY).

BANGLADESH: Radio Bangladesh 4779.8 f/d "Lighting on Independence Day" cd. in 57 ds. after a f/up rpt. in 10 mo. for 2 IRCs. v/s Md. Ramizuddin Bhuiya, Engineer. Schedule was rcvd.(Kusalik-ALB).

BELARUS: Radio Minsk 15580 f/d "Zebra But-terfly w/ Peacock Colours" cd. in 200 ds. for a GM rpt. Schedule was rovd. (Humenyk-ONT).

BELGIUM: Radio Vlaanderen International f/d cd. in 66 ds. (Turnick-PA).

Note: Gabriel Ivan Barrera also sent in a colored copy of this pennant. It is amazing what todays copy machines can do....Sam.



BOLIVIA: Radio Metropolitana

* 6195 f/d ltr. w/ pennant
in 10 mo. after a f/up
rpt. in SP w/ \$1.00. v/s
Carlos Palenque Aviles,
Presidente.(KohlbrennerPA). f/d "Certificado de
Sintonia" ltr. w/ personal ltr. in 263 ds. for a
SP rpt. and \$1.00. v/s Rodolfo Beltran Rosales, Jefe de Prensa.(Durden-GA).
f/d prepared cd. w/ personal ltr. and large pennant
in 9 mo. for a SP rpt. w/
ms.(Orcutt). f/d ltr. w/

EMISORA

FERROVIARIA

00123 his

pennant in 10 mo. for a SP rpt. and \$1.00. (Lobdell-MA). 6194.6 f/d ltr. p/ pennant in 5 wks. for a SP rpt.(Barto-CT). same in 2 mo. after a f/up rpt. in SP in 2 mo. Pennant rcvd.(Field-MI). Radio Santa Cruz 6135 f/d ltr. in 28 ds. for a SP rpt. and

NOTE: Many of the pennants displayed in this months QSL Column are from the collection of Mr. T. Inoue Nozaki. Thank you for sharing them with us....Sam.

\$1.00. v/s Victor Blajot S.I. (Paszkiewicz).

Radio San Miquel 4925.6 p/d cd. w/ltr. and a beautiful 25th Anniversary pennant for a taped rpt. and a rpt. in SP.(Klinck-NY).

taped rpt. and a rpt. in SP.(Klinck-NY).

* Radio Juan XXIII 4965 f/d prepared cd. in 164 ds. for a SP rpt. and \$1.00.v/s Elias

* Cortezon PBRD, Director.(D'Angelo-PA). Radio Frontera 4450 f/d "CP9AR" ham QSL cd. w/ n/d verie message on the back in 354 ds. for a SP rpt. and \$1.00. This was after 2 f/up rpts. Also rcvd. 2 nice pennants. v/s Lino Miahuchi von Ancken. 300 watts:(Durden-GA).

BOTSWANA: VOA 15445 f/d cd. in 119 ds.(Turnick)

BRASIL: Radio
Bras 15265
n/d ltr. in
56 ds. w/

schedule for \$1.00.(Lane). <u>Radio Cancao Nova</u> 4825 f/d cd. w/ sticker in 282 ds. for a PT rpt. and \$1.00.(Lawrence-NY).

COMPLEMATION OF BECEPTION SEPONT - US

SAUSIDAS - TARFAUL

TO CHEIR LUBBELL Bas 146, Stonshoo, MA 02160 WSA

PEAR HE. LOUBELLY

THE ARE PERSON TO COMPLETE TOUS ENCEPTION OF ONE STATEME AS

PATE OF SECRETION 12:44-16:10 HISCORY

TIME OF PERSONNEL 17:44-15:30 STC/CHT

THANK TOO FOR TOOK INTEREST IN SADIO TAXEARIA - ZAMEISAN

The back of the same of Benefic and Summary Tras

THERE YOU had PARCOS PATERESS
SEED MY CAPPINESS TO DOOR PROCESS
IT IT IS POSITED FOR JUNE CONTROL VIOLET TO
THE SPORTS SUMMER CONTROL SOND STATE STATES

VERIFICATION SIGNERS: Radio Santa Cruz 6135 Victor Blajot, Director General. Radio Cima 100 4960 Roberto Vargas, Owner. La Voz del Rio Tarqui 3285 Alicia Polla C., Administradora. Radio New Zealand International 15120 Tony Ward. Radio Miskut 5770 Evaristo Mercado Perez, Director. La Voz del Alto Mayo 6137.5 Pedro Bustamante Carrero, Administrador. Radio Nacional de Peru 6095 Rafael Mego Carrascal, Jefatura de la Administracion de Radio Television Peruana...via PLAY DX....Sam.

BRASIL: Radio Aparecida 5035 f/d cd.
in 2 mo. for a PT rpt. and \$1.00.
Letter and calendar vere rcvd. v/s
Cassiano A. Macedo, DX Editor.
(Kohlbrenner-PA). Radio Bandeirantes 9645 p/d ltr. in 35 ds. for
\$1.00. (Paszkiewicz).



BRASIL: Radio Nacional da Amazonia ZYE365 6183.4 p/d note w/ sticker in 3 mo. for a PT rpt.(Barto-CT).

BULGARIA: Radio Sofia 7290 via Plovdiv f/d cd. w/ site in 9 mo. after a f/up rpt. schedule and pennant rcvd.(Kusalik). 7225 and 9700 via Kostinbrod f/d cd. w/ site in 9 mo. (Kusalik). Radio Varna 15330 f/d prepared cd. w/ personal ltr. in 152 ds. v/s E. Gileva.(D'Angelo-PA).

CANADA: Radio Austria International 6015 f/d ltr. in 18 ds.(Humenyk). <u>CFRX</u> 6070 f/d "Logo" cd. in 17 ds. for \$1.00. v/s Stephen Canney. (Palmersheim-WA). f/d cd. w/ schedule in 13 ds. for \$1.00. (McCarthy-GA). CBC Northern Quebec Service 9625 p/d personal ltr. in 3 mo. for \$1.00.(returned). v/s Nathalie Chamberland. (Anderson-MI).

CANADA (Pirate): CSIC Radio 7413 f/d cd. in 129 ds. for ms. (Turnick-PA).

CHINA, PEOPLES REP. OF: China Radio Internation-al 9780 and 11715 f/d "Flowers" cd. in 33 ds. w/paper cuts.(Levison-PA). 9440 (9390 was rptd.) f/d cd. w/ calendar

in 48 ds.(Hardester-NC). 7405 f/d "Bird" cd. in 2 wks. for ms.(Pappas) CPBS 6840 p/d cd. in 35 ds. for 2 IRCs.(Turnick-PA).

CLANDESTINE: Voice of Mojahed 6540 n/d personal ltr. in 3 mo. Also * rcvd. various nx bulletins. Addr: P.O. Box 951, London NW 119 EL, England. (Field-MI).

COLOMBIA: Radio Buenaventura 4836 f/d prepared cd. w/ p/d form ltr. and sticker in 6 wks. for a SP anamericana 14 PAT - BOLIVIA rpt. and \$1.00. v/s Maria Henlinda Lopez Meza, Secretaria OM 838 650 OC 8195 650 Em Blant 816016 (Orcutt). Ondas del Meta 4885 n/d personal ltr. in 567 ds. for a SP rpt. and \$1.00. This after 5 f/up rpts. v/s Yolanda Plazas Agredo, Administradora. Tourist info. rcvd.(Durden-GA).

VERIFICATION SIGNERS: ZNBC 4910 Noble C. Makungu. Radio La Ene 4800 Jose Dario Perez Diaz, Director. QTH: Pedro Fco. Bono' No. 58 Santiago de los Caballeros, Dominican Republic. RIAS Berlin 6005 Miss Lydia Duwe. La Voz de Atitlan 2390 Juan Aitzip Alvorado, Director. RRI Ambon 4864 Pirla C. Noija, Kepala Seksi Siaran Radio Chita 4860 V. Klimov. QTH: Ul. Kostovko Grigorieva 27, Chita 672090. Radio Nadezhda 11745 Miss

Tatiana Zeleranskaya, Editor in Chief. Radio Payat 7230 Yuri O. Mirolyubov. QTH:

Valovaya 32/4, Moscow 113054...via PLAY DX...Sam.



COSTA RICA: Radio For Peace International 21465 f/d cd. w/ schedule in 42 ds. for \$1.00. 7375 f/d cd. w/ schedule in 198 ds. v/s James Latham. (Humenyk-ONT). Radio Lira-Adventist World Radio 9725 f/d cd. w/ltr. in 124 ds. for a SP rpt. and ms. v/s David Gregory, General Manager. Stamps and sticker rcvd.(Turnick-PA).

CUBA: Radio Habana 17705 f/d "Picadura Valley Cattle" cd. w/ schedule in 5 mo.(Kusalik) 6010 f/d cd. w/ newspaper in 105 ds.(Lane) f/d "Club DX" cd. w/ personal ltr. and stickers in 124 ds.(Gold-MI).

CZECH REP: Radio Praque 7345 via Litomysl f/d "St. George Basilica" cd. in 31 ds. for 2 IRCs. (Wilkins-CO). 11990, 5930, 9485 and 7345 2 f/d cds. after a f/up rpt. in 1 mo. Sticker and schedule rcvd. (Field-ECUADOR: HCJB 9745 and 15115 f/d cd. w/ schedule in 48 ds.(Humenyk).

OSL# 22

via Lobdell

(Happy Hanukkah)



Oy, this letter confirms that your report of "Happy Hanukkah" matches our station log. You heard the best of ethnic pirate radio on September 19th, 1993, in that "other" calendar, between 0203-0218 UTC, We were broadcast via a transmitter located somewhere In greater North America, on 7410 kHz AM.

Thanks for writing to Happy Hanukkah. Your comments and suggestions are always welcome. This was our third broadcast, and don't forget to look for us during

Remember: "The week over the strong the few over the many, and those who desecrate the FCC over those who fear it

or something like that



ECUADOR: HCJB 9745 f/d cd. in 25 ds. (Lane). f/d "Rio Coca Falls" cd. in 1 mo. w/ calendar for US ms. (Loudell-DE). Radio Baha'i 4950 p/d personal ltr. in 27 ds. for a SP rpt. and \$1.00. v/s's Mirta Perea, Rosa Virginia Maldonado, Irene Iturburo, Jaime Perugachi & others.(Durden-GA). f/d prepared cd. w/ personal ltr. in 1 mo. for a SP rpt. w/ ms. v/s William Rodriguez, Coordinador (Orcutt). Radio Pederacion 4960 p/d 1tr. in 5 wks. for a SP rpt. and \$1.00. v/s Prof. Albino M. Utitiaj P., (Kohlbrenner) Radio Oriental 4780 f/d cd. in 3 mo w/ pennant for a SP rpt. v/s Luis Enrique Espen Espinoza, Gerente-General. (Field-MI). personal ltr.

RADIO SAN MIGUEL

and cd. in 93 ds.(D'Angelo-PA). Radio Catolica Nacional 5030 n/d personal ltr. in 94 ds. for a SP rpt. and ms. v/s John Siguenza, Director

(Turnick). Radio Catolica 3395 n/d personal ltr. in 2 wks. after a f/up rpt. in SP. (Field-MI).

NOTE: AVATAR is here!!! Kirk Trummel has produced what I consider to be an extremely valuable DX tool. This is a constantly updated listing of all reported shortwave broadcasters (except for the major international ones). They are arranged by station, call or country, city and frequency! Quite an accomplishment. It will be produced four times per year. For more information regarding subscription and price, please write to Kirk at 1122 West University, Springfield, MO 65807 or call (417) 831-7327. This is a great piece of work and I strongly recommend it for any serious DXer....Sam.

EUROPIRATES: Romantic Space Radio 7464 f/d sheet in 82 ds. for \$1.00. This was an NAPRS relay. Addr: P.O. Box 29, Moscow. (Comeau-MA).

EUROPEAN RUSSIA: Radio Moscow 9890 via St. Petersburg f/d cd. w/ site in 2 mo. (Ondrechen-DEN).

FERNANDO POO: Radio Nacional de Guinea 6250 cd. in 59 ds. **Gallet St. for ms. v/s Ciprano Somon Suakin.(Hyson-NC)...Just when I thought the mailman had died I got this!!! Great. ersheim-WA).

FRENCH GUINEA: Radio Japan 15325 via Montsinery f/d cd. in 32 ds.(Palm-GABON: Radio Japan 21700 via Moyabi f/d "Graphic IMage of Towers" cd. in 30 ds. (Rigas-IL). Swiss Radio International 12035 f/d "Two Bob's"



Door John G. EGKENT.

We are very pleased to confirm your reception report of our transmission, which is in accordance with our schedule.

Oate-28. RR.E. 1988 Frequency (KHZ) 5.995

Time (UTC): 12:11 - 12:35

We thank you for your report, we will be pleased to hear

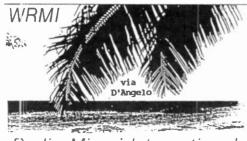
from you again. With best wishes from Napal

RIKUYKI Brondcast Hours 00 15-17 15 HRS (UTC) FREQUENCIES 5005,7165/3230 1143 010 792 644 640,576 (KHZ)



John C. Eckert REV John ECKETT 429 FEVN ST. PHILADELPHIA PA 19120 - 1313 USA

cd. in 4 mo. for 1 IRC. (Anderson-MI) GERMANY (West): Suddeutscher Rundfunk 6030 f/d cd. in 9 ds. (Ondrechen-DEN) Radio Bremen 6190 f/d cd. in 5 ds. (Ondrechen-DEN). VOA Munich 3980 cd. w/ site in 5 wks. (Ondrechen). 11965 via Wertachtal f/d "Sunrise" cd. in 24 ds. (Palmersheim-WA). RFE/RL 7220 via Lampertheim f/d cd. in 3 mo. (Field-MI).



Radio Miami International

GERMANY (West): RFE/RL 9750 via Biblis f/d cd. in 3 mo. w/ schedule. (Field-MI).

GHANA: GBC 6130 f/d cd. in 65 ds. after a f/up rpt. for 2 IRCs.(Martin-CA). 4915 f/d "Logo" cd. w/ schedule in 68 ds. for 2 IRCs. v/s E. Heneath. (Wilkins-MS).

GREECE: Voice of Greece 9425, 11595 and 11645 f/d cd. w/ schedule in 129 ds.(Lane). GREENLAND: Grønlands Radio 3999

f/d prepared cd. w/ p/d postcard in 160 ds. after 4 f/up

rpts. for an 88 reception. v/s J. Petruissu.(D'Angelo-PA)...Great: GUAM: Australian Radio DX Club 11980 via RSDA f/d :First Day of Issue "Leaellynsaura" cd. in 30 ds. for 2 IRCs.v/s Bob Padula, QSL Manager. GUATEMALA: TGNA Radio Cultura 3300 p/d cd. w/ same design (Kusalik-ALB) that I rcvd. in 1963: w/ltr. and schedule in 75 ds. for ms.(Klinck). HAWAII: KWHR 9930 schedule and info. sheet in 1 mo. w/o QSL.(Durden-GA). HOILAND: Radio Nederlands 13700 via Flevo f/d cd. in 25 ds.(Humenyk).

NOTE: John Sqrulletta says that the QSL to the right is his most memorable in 35 years of DXing. In October of 93 John received this amateur QSL from Erian Young. Eleven years ago he received a OSL from Kari Young, Brian vife....Great...Sam.

HONDURAS: Radio Copan International 15675 f/d cd. in 2 wks. for \$1,00. v/s Jeff White. (Kohlbrenner-PA). f/d cd. in 3 mo.(Field-MI). f/d cd. in 3 wks. via WRMI for a taped rpt. and \$1.00.(Clar-NY). f/d

June 93 0401 14225 MOKE WAF Rig 734005 Brian Young Antenna: 77723 777 P O Box 21 QTH. Adamstown

R6BX

250 feet above sea level Also, KB9FLM - stateside "73"

Pitcairn Island South Pacific Ocean

"Maya Statue" cd. in 15 ds. for SASE via Miami addr.(Frodge-MI). in 156 ds. for ms.(D'Angelo-PA). f/d cd. in 25 ds. for ms.(Rigas-IL). f/d cd. in 58 ds.(Paszkiewicz). same cd. w/ schedule in 20 ds.(Washburn-ME). f/d cd. in 1 mo. for \$1.00.(Palmersheim-WA). 2 cds. in 140 and 144 ds. for \$1.00.(Kusalik-ALB). Radio Luz y Vida 3250 f/d handprinted personal 1tr. in 310 ds. for a SP rpt. and \$1.00. This after 2 f/up rpts. v/s Ubaldo Zaldivar Lopez, Locutor. (Durden-GA).



HONG KONG: BBC 15280 f/d folder cd. in 26 ds. for 1 IRC.(Lane). 11820 f/d 1tr. in 3 wks. for 1 IRC.(Anderson-MI).

HUNGARY: Radio Budapest 11910 via Jaszbereny f/d cd. in 56 ds.(Humenyk-ONT).

IRELAND: Radio Caroline 6295 f/d cd. w/ info. sheet in 4 wks. for \$2.00 v/s John Knight. (Ondrechen-DEN).

ITALY: RAI Radio Uno 15525 via Prato Smeralao p/d "RAI Electronic Test" cd. in 493 ds. (Yamada-JPN). U.N. Radio via IRRS 7125 f/d cd. in mo. (Ondrechen-DEN).



ITALY: European Christian Radio 6210 f/d cd. in 65 ds. for 1 IRC. (Turnick-PA).

JAPAN: Radio France International 9650 f/d cd. in 72 ds.(Buer-FL). NHK Ebetsu JKU20 "Sapporo" cd. in 23 ds. after a f/up rpt. for 2 IRCs.(Kusalik-ALB)...Freq. 3970

JORDAN: Radio Jordan 9560 f/d cd. in 3 wks. for ms. v/s Jawad Zada. (Rausch-NJ). f/d cd. after a f/up rpt. in 46 ds. for \$1.00.(Mar-KIRIBATI: Radio Kiribati 9825 tin-CA). f/d "Native" cd. in 38 ds. for \$1.00. (Fro-

dge-MI).

KOREA, DEMOCRATIC REP. OF: Radio Pyongyang
9977 f/d cd. w/ pennant and schedule in 188
ds. for \$1.00.(McCarthy-GA).

, REP.OF: Radio Korea 11725, 6165, 9570 & 7275 n/d "Mandarin Duck" cd. w/ schedule and sticker in 3 mo.(Barto-CT)

KUWAIT: Radio Kuwait 13620 f/d brochure in 6 mo. for \$1.00. (Pankake-MN).

LATVIA: Radio Riga International 5935 via Ulbroka f/d cd. w/ schedule in 21 ds. (Ondrechen). LITHUANIA: Radio Vilnius 7150 f/d cd. w/ sked. in 41 ds. for \$1.00.(Lane).

VERIFICATION SIGNERS: Radio Oriente Pedro Capo Moraques, Gerente Tecnico. Radio Cusco 6205 Raul Siu Almonte, Gerente General. Radio Ancash 4991 Armando Moreno R., Gerente. La Voz de la Selva 4824 Julia Jaurequi Rengifo, Directora. Radio Vision 2000 5131 Marino Tello Cruzado, Gerente Proprietario....via PLAY DX.....Sam.

f/d cd. in 30 ds. (Humenyk-ONT).

РАДИО МОСКВА

Mr.Sgruletta, This verifies your report on the reception in English of Itadio Moscow's broadcast Date 1.8.93

LUXEMBOURG: Radio Tele Luxembourg 15350 Time 11.19-11.57 UTC

Frequency 17815 kHz-via Kishinev

MALAGASY REP: Radio Nederlands 11655 f/d cd. in 49 ds.(Dukes-SC).

MALTA: Voice of the Mediterranean 9765 f/d cd. in 34 ds.(Humenyk-ONT). MEXICO: Radio Educacion 6185 f/d "Logo" cd. in 63 ds. for \$1.00. Also rcvd. sticker and schedule. (Millard-TX). Radio Mil 6010 p/d ltr. in 5 wks. for a SP rpt. and \$1.00. Stickers were rcvd. v/s Zoila Quintanar Flores. (Kohlbrenner-PA).

RADIO TELETISIDA POPULAR

OSL Ceruficado de Sintonia

Señor: CHRISTOPHER LORDILL

RADIO METROPOLITANA le da las gracias por su informe de recepción. Tenemos el gusto de su control de nuestra confirmat emisión en frecuencia de 6193 kils, de

02.03.1993 Secha: Horas: 05:76-05:40



MOLDOVA: Radio Moscow 17760 via Kishinev f/d "People's Friendship Fountain" cd. in 6 wks.(Loudell-DE). 7105 f/d "Kosmos Hotel" cd. in 52 ds. for \$1.00. v/s Eugenia Stepanova. MONACO: Trans World Radio (Comeau). 7385 via Mont Agel f/d cd. in 2 mo. w/

schedule.(Barto-CT). same in 24 ds. w/ pennant and schedule. (Humenyk-ONT). MOROCCO: YOA 15410 f/d cd. w/ schedule and sticker in 35 ds. (Turnick-PA).

MOZAMBIQUE: Radio Mocambique 3210.1 f/d cd. in 49 ds. for a PT rpt., tape and ms.

NAMIBIA: NBC 3270 f/d cd. (Kli in 56 ds. for 1 IRC.(Turnick-PA). (Klinck-NY).

NEPAL: Radio Nepal 5005 f/d "Town of Pokhara" cd. in 150 ds. after 4 f/up rpts. v/s R. S. Karki. (D'Angelo-PA).

NEW BRITAIN: Radio West New Britain 3235 p/d ltr. in 2 mo. for \$1.00. v/s Darius Gilime, Provincial Program Manager. (Loudell). same in 60 ds. for \$1.00.(Lawre-NEWFOUNDLAND: CKZN 6160 f/d nce-NY).

folder cd. w/ sticker and 1tr. in 358 ds. for \$1.00(returned). (Pankake-MN).

Fio Best encourt

Trank you for your undeted fax which was today forwarded to us by NEWFOUNDLAND: CKZN 6160 tte previous owners of this Company.

K! ndly advise us to which fax number your initial letter was sent $t_{\rm C}$ and the source where you got it from, as they would like to have that data changed a.s.e.p.

Thenk you for your information regarding the voice of Renes program, but you were in fact a lucky person. That day was the day they have runt a test and you simply picked them up.

Your report is good is terms of the quality of the music sithough you have not been able to follow the conversation. Anyhow that was mot a political program. Renamo would like to run this program but we are escountering problems in getting approval from the previous owners in terms of the selling contract as they would consider it costroversial and the Swaziland Government itself reals that they still have an old friendeship link with Prolimo.

Dimocracy is still a long way from reality in Africa.

Keep listening to us in Portuguese between 10 and 12 noon and 16 and 18 hours (Swaziland times) and let us have your further com-

oficely, Vestf/d cd. w/ sticker and ltr. in 355 ds. for a taped rpt. v/s Shawn Williams, Manager for Regional Engineering. (Lamb-NY).

NEW GUINEA TERR: Radio Enga 2410 p/d ltr. in 13 mo. after 2 f/up rpts. for \$1.00.(Kohl-brenner). Radio Western Highlands 3375 f/d "NBC" cd. w/ personal ltr. in 160 ds. for \$1.00. v/s Esau Okole, Technician. (Durden-GA). f/d pre~

pared cd. in 22 ds. for ms. (Sgrulletta-NY). Radio Morobe 3220 p/d 2 page 1tr. in 2 mo. for \$1.00. v/s Peter W. Manau, Provincial Programme Manager. (Lpudell). Director of Programmes

NEW IRELAND: Radio New Ireland 3905 f/d ltr. in 42 ds. for \$1.00. v/s Ruben Bale, Provincial Program Mana-

ger. (Lawrence-NY). NORWAY: Radio Denmark 15220 via Kvitsoy f/d cd in 3 mo. w/ schedule and sticker.(Field-MI) <u>PAPUA TERR:</u> NBC Karai Service 9675 f/d cd. in * 6 wks. for ms. v/s Francesca Maredei, Planning Officer. (Kohlbrenner-PA).

PERU: Radio Madre de Dios 4953 f/d cd. in 6 wks. for a SP rpt. and \$1.00. (Kohlbrenner). * Onda Azul 4801 p/d cd. in 8 wks. for a SP

rpt. and \$1.00. v/s Mauricio Rodriguez R., Jefe de Producion y Programacion. Sticker

* was rcvd. (Kohlbrenner). Radio Libertad 5039.2 n/d "150th Anniversary of the Battle of Junin" cd. in 41 ds. for a SP rpt. and \$1.00. v/s Mauro Chaccha G., Director-Gerente. (Durden-GA). 5040 f/d cd. in 35 mo. for a SP rpt. This was after 32 f/up rpts!!! (Field-MI)...For those many rpts. you could of hand-delivered your rpt...Sam.

JORTUGAL: RPE/RL 9520 via M xoqueira f/d cd. in 3 mo. w/ schedule.(Field-MI). VOA 9760 via Gloria f/d cd. in 5 wks. (Ondrechen-DEN) Radio Portugal 9570 f/d "World Map" cd. in 27

ds. (Washburn-ME). SAINT HELENA: Radio Saint Helena ZHH 11092.5 f/d cd. w/ info. sheet in 116 ds. for \$2.00. v/s Tony Leo.(Hardester-NC). same in 109 ds. for 4 IRCs.(Washburn-ME). f/d cd. w/ newsltr. in 3½ mo. for \$1.00.(Lou-





ONDA MEDIA 1220 Khr - ONDA CORTA 4980 Khr

dell-DE). same in 35 mo. for ms.(Rausch-NJ). f/d cd. in 104 ds. for \$1.00 (Lawrence-NY). f/d cd. w/ 1tr. in 105 ds.(Humenvk-ONT).

SIERRA LEONE: SLBS 3316 p/d square blue cd. w/ logo and stamp in 332 ds. for \$1.00 after a f/up rpt. v/s Joshua Micol, Director. (Durden-GA).

SLOVAK REP: Slovak Radio 5915, 7345 and 9440 f/d cd. in 23 ds. (Ondrechen-DEN). 5930 f/d cd. in 25 ds. for \$1.00.(Wilkins-MS).



La Emisora más querida 4780 Kr. SW 1360 Kz AM

Tena provincia de Napo - Ecuador - casilla 260 - Telf. \$26033 CONFIERE EL CERTIFICADO DE SINTONIA

A su distinguido ovente: RICHARD A. DÉRGELO de VYCHIRRIES. PA ESTADOS UNIDOS que ha escuchado desde 5602 a 5635 en nuestra frecuencia de 4780 Kz.

el die 26 de Septiembre de 1.993

Tena, 20 de Diciembra de 1.993 Dity Engrave Land Paper GERENTE GENERAL.

SWEDEN: Radio Sweden 9695 f/d "Goteborg" cd. in 6 wks. (Loudell-DE).

SYRIA: Syrian Arab Rep. Broadcasting Service 12085 f/d cd. w/ sticker, paper flag and a copy of the Syrian Times in 5 mo. for \$1.00.(Pankake) TAIWAN: WYFR 6300 via Voice of Asia f/d cd. in 52 ds. for ms. (Ondrechen).

THAILAND: VOA f/d cd. in 11 ds. for ms. v/s John Vodenik (Turnick-PA) . URUGUAY: Radio El Espectador 11835 and Radio

Gillycuddy, Ambassador. (Clar-NY).

Oriental 11735 f/d prepared cd. in 7 ds. for a SP rpt. and SASE. These were OSLed

via the Embassy of Uruguay, 1918 F Street.

NW, Washington DC 20006. v/s Eduardo Mac-

in 7 wks. for \$1.00.(Pankake). WEWN 13740

f/d "Trumpeter" cd. w/ ltr. in 44 ds. for

ms. (Ondrechen-DEN). WRMI 9955 f/d cd. in

2 wks. for a FAXed rpt. v/s Jeff White.(Rausch-NJ). WFLA 25870 f/d cd. in 4 mo. (Field-

USA: KCBI 15375 f/d cd. in 35 mo. for \$1.00. (Pankake-MN). WINB 15295 f/d cd. w/ sked.

Kalaallit Nunaata Radioa M. J. Blokered St. B.O. Box 1007 DK 2000 Musik

DEAD I HETEMEN

Think you very much for your reception report, detect (2 - 1 - 2 - 2 and just received. We can sentirm that you have have mut been listening to BARM GREENLAND on that very day and time

We greatly appreciate y allie Nany hearing from Ofenlands Radio 9. 9. Byx 1007,

900 Gogshab

3 ms. from the Wellsville drop. (Lobdell) Radio Doomsday 7414.5 f/d cd. in 6 wks. for ms. (Kohlbrenner).

VATICAN: Radio Vatican 15090 f/d "St. Peters Dome" cd. in 56 ds.(Gold-MI).

VENEZUELA: Radio Continente 5030 f/d cd. in 474 ds. for a SP rpt. and \$1.00. This after 4 f/up rpts. (Durden-GA).

WEST IRIAN: RRI Sorong 4874.6 n/a ltr. in 45 ds. for an IN rpt. and 1 IRC. v/s Resa Molle, Kasi Siaran. (Yamada-JPN).

YEMEN: Yemen Radio and TV f/d ltr. in 52 ds. for l IRC. (Turnick-PA).

ZANZIBAR: Radio Tanzania Zanzibar 11734 f/d prepared ltr. in 10 mo. after a f/up rpt. for \$1.00. v/s Yusuf Omar Chunda, Dept. of Information and Broadcasting, V/C #214: (Lobdell-MA).

Still have OSLs left over, They will all be in next months OSL Column.

Best of OSLing....



SOUTH AFRICA: Channel Africa 7230 f/d sticker in 4 mo. (Field-MI).

SPAIN: China Radio International 9690 f/d cd. in 40 ds. (Levison).

SULAWESI: RPDTk2 Buol Toli Toli 3655 f/d prepared cd. w/ IN ltr. in 23 ds. after 3 f/up rpts. v/s Said Rasvid, Kep-

ala Studio. (Kusalik-ALB).

USA (Pirate): Voice of the Runaway Maharishi 7445 f/d form ltr. in años Ū O a d 1250K M 104.1 CP 74 O 6175 K STEREO

NASWA Scoreboard

Jerry Lineback 6361 Shore Drive Douglasville, GA 30135



Welcome to the SCOREBOARD once again. This quarter the Spotlight is on North America. C/B = Countries Heard and C/V = Countries Verrified. Country Counts are according to the NASWA Radio Countries List. Be sure to update your totals at least once a year to remain on the SCOREBOARD.

Name Chaha					
Name, State	Total	0/11	NA	a 11-	Best NA QSL
	C/H	C/V	C/H	C/V	
James Young, CA	242	227			
Edward Kusalik, Alberta	242	227		0.0	
Gordon Darling, P/NG	238 238	235	23	22	VS18 R. 4788
Marlin Field, MI	236	233	23	22	R. Swan
Jerry Berg, MA	233	234	23	23	CFRX 6080
William Flynn, OR	232			24	2NX32 Barbados
Steven Lare, MI	226	214	25 20	25	Groenlands R.
Ed Shaw, KY	225	203	24	19	Greenland
Mitch Sams, MO	225			21	CKFX
John Sgrulletta, NY	224	189	19	18	CKFX Vancouver
Nobuaki Takahashi, Japan		224	22	22	CKFX
Donald Hosmer, MI	224	198	0.0		
		194	20	17	Swan Is.
Al Miller, Jr., OH Richard Davis, NM	217	209	21	21	Belize
Larry Abraham, MI	215	205	22	20	Panama HOH7
Ron Howard, CA	215	200	22	21	Greenland
Sheryl Paszkiewicz, WI	215 213	199	21	21	Turks & Caicos
Paul Buer, FL	213	205	19	19	Grenada
Frank Orcutt, NY	213	202 182	22	21	CKFX
Del Fye, FL	212	198	21 20	18 18	CKFX
Rick Krzemien, CA	211	202	19	18	El Salvador
Christos Rigas, IL	210	191	19	18	Greenland
Fred Kohlbrenner, PA	210	184	19	18	Grenada Greenland
Mike Hardester, NC	209	194	19	19	Turks
Jerry Lineback, GA	206	108	20	12	Turks
Dino Bloisse, Dominican Rep.	205	85	20	19	R. Clarin
Jerry Klinck, NY	202	175	20	18	R. Americas
Charlie Washburn, ME	201	155	31	27	HOLA Panama
Martin Foltz, CA	200	164	21	21	CKFX 6080
Tom Daly, NY	200	46	19	6	Windward Is. BC
Stephen Pitts, NE	197	171	18	17	
Larry Kramer, CO	196	138	18	15	LV Mosquitia HOLA Panama
Stephen Price, PA	180	143	15	13	R. Cima Ciento
Rev. John Eckert, PA	175	161	16	15	KNLS Alaska
Allan Loudell, DE	175	146	18	17	R. Belize
Ichiro Maruo, Japan	174	113	8	7	Sani Radio
Daniel McCarthy, GA	169	144	17	16	R. Swan
Pasquale Di Biase, ME	169	121	- 1	10	N. Swall
Andy Rugg, Que.	167	152	21	19	KNLS Alaska
Carl Mann, NE	165	151	21	21	R. Haiti 10070
Scott Helm, KS	163	107	11	10	WNYW
Kirk Trummel, MO	158	119	19	13	4VEH Haiti
Ross Comeau, MA	157	118	15	11	4VEH Haiti
Nick Grace, DC	157	114	15	13	AVEN BAILI
Mark Humenyk, Ont.	157	114	14	12	KUSW
Carl Radtke, WA	153	153	18	18	Grenada
Bill Taylor, PA	152	115	16	14	
Elliot Straus, NJ	152	86	17	10	Vo Lumpfish
Richard Hankison, KS	150	124	1.7	IO	Turks 4.788
Chris Sweitzer, FL	142	88	16	9	CHNV
	494	0.0	10	9	CHNX

Name, State	Total		NA		Best NA OSL
and production of the second o	C/H	C/V		C/V	2-2-7 202
	-,	-,	- /	1	
Steve Bagozzi, CA	135	105	12	9	TIFC
Joe Kremer, IN	134	87	16	12	R. Amanecer
Barry Schwartz, NY	125	100	11	11	R. Cima Cien
Jason Moore, KY	120	68	11	7	KVOH
Greg Martin, MI	118	91	14	12	
Lowell Pankake, MN	118	67	11	8	CFVP Calgary
Chris Tyle, CA	116	35			
Norm Newhall, CT	112	100	14	13	Windward Is. BS
Kevin Murray, OR	103	80	9	8	Grenada
Bruce Orenstein, NY	102	72	12	8	Radio Grenada
Brian Boulden, CA	98	86	9	9	CKFX
Mark Anderson, MI	91	71	10	10	4VEH
Andreas Scheurell, PA	84	53	9	9	LV Evangelica
Ed Poston, IA	78	45	9	7	CKZN Newfoundld

Thanks to all of our contributors. Next quarter the Spotlight will be on Oceania. The next deadline will be May 15, 1994, for the June issue. 73s to all.

Announcing...

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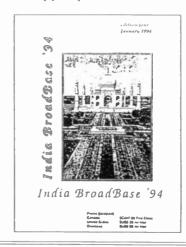
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LOGGINGS CONTRIBUTORS—MARCH, 1994—DEADLINE THE 10TH OF EACH MONTH

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NRD525 Vs Longwires NRD525 DX440 Eavesdropper 180' Random R8 R390A HQ180A 150' LW R8 ATS803A Transoceanic Eavesdropper R8 Sony 2010 RF4900 48' & 80' Random

DX400 Homebrew Antenna R8 FRG8800 Eavesdropper, 110' LW 2-R8 2-R7 HQ180C Mucho Antena Icom 725 R 1000 R8 FL3 AD Sloper Farley Loop DX380 ICF7601 AN1 SX100 SX110 S76 65' Trap Dipole 41' MLB Antenna NRD525 51S1 FL3 TUN4 60' Random NRD535D SPR4 Eavesdropper R8 R2000 Sony2010 R7A TUN3 500'Loop Grundig Satellite see below for details **R71A** D2935 TUN3 AD Sloper AN60 Hot Wire R8 FL3 AD370 AD Sloper 50' LW DX302 Transoceanic 33' LW R5000 AD Sloper R8 HQ180A Sony 2010 2-60m Dipoles 80' LW HF150 ATS803A DX375 MFJ16010 16m Dipole 60m LW R5000 20m Dipole NRD525 DX440 Dipole LW R8 R70 D2999 Indoor LW DX380 R8 R5000 70' Windom 66' Dipole 45' Segmented HF150 Sony 2010 MFJ16010 70'LW 50'LW R8 DX 400 Indoor Random NRD515 NRD525 Eavesdropper 150' LW NRD515 R71A FRG7 DA100D R5000 Sony 2010 MFJ959 Eavesdropper 150' LW DX302 FRG8800 FRA7700 ATS808 LW Sony 2010 Sony 2001D AN1 NRD525 AD Sloper SW60 ATS803A R71A S107 Random TS440S HQ180 Sony 2010 FRG7 125'LW

Because of the collaboration of Hans Johnson, Tony Orr, Fred Kohlbrenner, Rich D'Angelo & Dave Valko, the logs from this DXpedition are combined into the identifier of GP in the logs sections. A group effort and a group report! A toast to such hardy souls who forget & forgo the comforts of their home listening posts & voluntarily wear thermal underwear!

R8 R1000 Sony 2010 SX77A

SPECIAL NOTE Because of the Winterfest, my deadline will have to be the 9th of March instead of the usual 10th of the month. Thanks for your cooperation. I hope to see a lot of our reporters there—if you can make, do it—it's quite a gathering!

Enjoyable listening & good DX -

Tropical Band Loggings

Sheryl Paszkiewicz 1015 Green Street Manitowoc, WI 54220



Looking forward to seeing several NASWA members at my first SWL fest!

1625 1720h 2360 2390 2410t 2850 3200t	PIRATE R Confusion 1/8 0600 fake ads, rock, ID (Alexander-PA) DOM REP R Clarin 2/3 0200-0412* ID, TC, nx, mx (Rausch-NJ) GUATEMALA Maya 2/5 1118 marimba, anmts, ID //3325 (Washburn) GUATEMALA Atitlan 1/7 0150 marimba, tlks, ID (D'Angelo-PA) NEW GUINEA Enga 1/28 1305* vcl 6 anmt (Flynn-OR) NORTH KOREA HS 1200 nx, KR mx (Urbelis-NY) SWAZILAND TWR 1/14 0323 lang tlk (Field-PA)
3222 3230	TOGO Kara 1/12 2234 FR ID, US blues (Klinck-NY) SOUTH AFRICA Oranje 0300 AK pops, IDs, ads (Urbelis-NY) 1/21 0309 EG TC, ID, Toto, Supremes (Karcheski-MA) 1/14 0324 tent w/Eagles mx (Field-PA)
3230.2	PERU El Sol de los Andes 1/8 0940 OA vols, ID (D'Angelo-PA)
3235	NEW BRITAIN RWNB 1/9 to 1302* rel, Xmas mx!, NA (D'Angelo-PA)
3240	SWAZILAND TWR 0300 Shona Bible pgm, sermon (Urbelis-NY)
3245	BRAZIL RC de Varginha 1/26 0029 canned IDs, anmts (Clark-ON)
3250	HONDURAS Luz y Vida 1/7 0131 ID, ad string (Davenport-TN)
3255	LESOTHO BBC 0258 nx, sports roundup, IS, ID (Urbelis-NY)
	1/6 1929 On the Move pgm, class mx (Serra-ITALY) 1/15 0308
	Brit nx, Vintage Chart Show (Lamb-NY) 0326 best ever (Field-PA)
3269.3	ECUADOR Ecos del Oriente 1/19 1032 ad string (Brown-CO)
3280	ECUADOR LV del Napo 2/5 1045 msgs, mx, ID, prayer (Washburn)
	1/19 1042 rel discussion (Brown-CO) 1/24 0155 mx to 0204*
	(Field-MI)
3290	ECUADOR R Centro 2/5 1000 nx, msgs, TCs, IDs (Washburn-ME)
	1/15 0220 lcl mx pgm (Klinck-NY)
3290	NAMIBIA NBC 1/6 0411 tlks, ID, lite mx (Davenport-TN) 1/12
	0420 EG econ, ID, nx, ment 1st nat1 bank of Namibia (D'Angelo)
	1/14 0402 EG nx, ment Windhoek (Field-PA) 1/3 0130 soft rock,
	Afr mx (Newbury-NE)
3295	INDO unid 1/28 1400-1500 pops, SCI 1430, nx ment Jakarta &
	Jambi (Flynn-OR)
3300	GUATEMALA TGNA 1/15 0333 Thru the Bible, addr, etc (Lamb-NY)
	1/12 0948 tent w/rel pgm, mx, couldn't get ID (Levison-PA)
3316	SIERRA LEONE SLBS 1/11 2139 lang tik, EG ID 2200, nx, sports,
	pops, 2229* NA, ID (Ducharme-MA)
3335	SWAZILAND TWR 0300 PT Bible pgm (Urbelis-NY)
3355p	INDIA Kurseong 1/5 1140 Indian singing (Berg-MA)
3356	BOTSWANA RB 2/8 0419 EG magazine pgm, mx (Brandi-NJ)
3365	INDIA Delhi 1/7 0145 tnx Clark (GP)
3366	GHANA GBC 1/25 0031 folk mx & het from Rebelde (Brown-CO)
3375	BRAZIL RN Sao Gabriel 2/13 1005 ID, ads, jingles (Pasz.)
3390.2	UNID 2/8 1040 polished operation, sev phone #s, nx 1100, tnx
	Wilkner, seems not Bolivian, 1130 x 3? (Johnson-MD)
3395.1	SUMATRA Tanjungkarang 1/12 2210 tlk/mx (Klinck-NY)
3905	IRIAN JAYA Merauke 1/7 1258 SCI poking thru, thx Johnson
	(D'Angelo-GP) Gee I live 80 mi north of Merauke, hihisp
	1/7 1257 mx, SCI tnx Clark (GP)
3935t	NEW ZEALAND ZLXA 1/19 to 0903* tlk, mx bridges, seemed EG,
	closing anmt, touch tone beeps (Berg-MA)
3945	VATICAN VR 1/13 0532 BG tlk, clas mx, 0600 EG nx (Serra-ITALY)
3959.8	SULAWESI Palu 1/9 2155 tlk, SCI, nx //4753, anthem (Clark-ON)
4039.2	PERU Marginal 1/7 *1059 NA, ID, mx (D'Angelo-PA)
4180	CLAND Vo Iranian Kurdistan 1/18 *0355 IS, ID, Koran (Rausch)
4299t	PERU Naylamp 1/5 1103 ads, tent ID (Davenport-TN)
4450t	CLAND Vo Natl Salvation 1/29 1115 tlks, jammed (Lawrence-NY)
4485t	PERU LV de Celendin tent ID, tlks (Davenport-TN)
4485	AS RUSSIA Petropav. prob the one 1/20 0410 tlk, partial ID

```
also next day 1200 w/6 notes & tlk (Field-MI)
           PERU Paucartambo 1/17 1104 mx, ID (Field-MI)
4510
           UNID Perla del Acre? 1/14 to 0305* mx/speech (Field-MI)
4598
4600
           BOLIVIA Perla del Acre 1/11 1020 ballads, ad string (Davenport)
4615t
           IRAQ 1/9 1720 poss AR tlks, bubble jam (Serra-ITALY) 1/9 0015
           Koran, tent ID (Davenport-TN)
4620.1
           IRAQ RB HS 1/15 0031* Koran, anmt, NA (Alexander-PA)
           TAJIKISTAN Dushanbe 1/26 1547 RS opera w/YL (Flynn-OR)
4635
           PERU Estación Laser 2/3 1200 tlks, mx (Lawrence-NY)
47C3t
           BOLIVIA Abaroa 1/12 1023 mx pgm (Field-MI)
4714t
           MYANMAR Vo Myanmar 1145 mx, lcl nx (Urbelis-NY)
SULAWESI Ujung Pandang 1/8 2200 IS, YL tlk (Berg-MA) 1/3
47:5
4753.4
           1312 weak w/mx (Davenport-TN) 1/8 2145 mx, SCI, ID (D'Angelo)
           BRAZIL Rdf Maranhao 1/29 0605 ID, pops (Alexander-PA)
4753.8
           BRAZIL Educ Rural 1/7 0200 pops, promos, ID, TC (Davenport-TN)
4755
           1/30 0150 anmts, ID, pops/ballads (Alexander-PA)
PERU Tingo Maria 1/7 1001 mx, IDs, TCs, poor (D'Angelo-PA)
ANDAMAN ISL Port Blair 1/18 1218 SC mx, ID, TP, nx //4860
(D'Angelo-PA) 2/7 1200 Hindi ID (Johnson-MD) EG 1230, 1430,
4759.1
4760
            1530, site IDs (Ryan-THAILAND)
            INDIA Imphal 1/4 1159 EG ID, Hindi mx (Davenport-TN) 1140
47 50
            Pt Blair or Imphal pretty good but mod better than voice (Berg)
            Is anybody hearing site IDs on these besides Ryan? -- sp 1/16
            1157 mx, Hindi anmt, ment Pt Blair (Johnson-MD) OK--sp
            LIBERIA ELWA to 0800* Back to the Bible (Urbelis-NY)
4760
           BRAZIL Integração 1/4 1043 ads, accordion, ID (Davenport-TN) SUMATRA Medan 1/7 2250 instls, SCI, Jak nx, lcl pgm (D'Angelo) ECUADOR Centinela del Sur 1/4 1101 ballads, anmts, ads,
4755
4765
4770
            gone by 1114 (Davenport-TN)
4770
            NIGERIA R Nigeria 1/9 1706 nx, 1Ds, TC, pops (Serra-ITALY)
            1/5 0431 drum IS, EG ID, lang nx (Davenport-TN)
            BRAZIL Amarela 1/4 0325 mx, echo ads (Davenport-TN)
4775
4775
            PERU Tarma 1/4 1031 echo ID, ads, Andean mx (Davenport-TN)
4775
            SWAZILAND TWR 1/28 *1555 IS, EG ID, 1600 lang (Flynn-OR)
            DOM REP Onda Musical 1/5 0130 tlks, hvy het (Davenport-TN)
4780
            1/23 0028 mx, IDs, Música folklorica (Klinck-NY) 1/16 2206
            bolero mx, IDs, drifting (Brandi-NJ)
            ECUADOR R Oriental 1/22 0958 mx, ID, nx? (Klinck-NY)
4780
            MALI RTV Malienne 1/18 2356 FR anmts, martial mx //4835 to
4783
            2358* (Karchesk1-MA)
4785
            AZERBAIJAN Baku 2/2 0145 class mx, ID, anmts (Washburn-ME)
            1/8 0330 mx & ID (GP)
4785
            CLAND R of the People of Iraq, Vo Iraqi People 1/6 2245
            half harmonic of 9570 (GP) Guess who ID'd that? -- sp
            COLOMBIA Ecos del Combeina 1/4 0325 Caracol promos (Daven.)
4785.5
4788.2t
            SO VIETNAM Gia Lai 1/7 1154 (GP)
            IRIAN JAYA Fak-Fak 1/9 2129 pops, ID, IS, nx (Clark-ON)
4789.7
            PERU Atlantida 1/29 1026 het & huayños (Brown-CO)
4790
4190.8
            PAKISTAN AKR tent 1/22 1530 EG nx, SC mx, Shillong on 4789
            (Howard-CA)
            UKRAINE RM 1/8 2245 RS tlk, IS, TC (Davenport-TN)
LESOTHO RL 1/13 0415 lang tlks, nx weak (Davenport-TN)
47.95
4800
            0336 rel tlk, poss Ladysmith Black Mambazo (Peck-NY) 1/8
            to 2102* choral mx, tlk, ID, NA (D'Angelo-PA)
            PERU Onda Azul 1/17 1033 quick ID, greet, mx (Berg-MA)
4801
4805
            BRAZIL Rdf Amazonas 1/10 1030 canned promos, echo anmt (Daven.)
4810
            SOUTH AFRICA R 2000 1/31 0115 AK/EG cricket, ID (Lamb-NY)
            1/12 0344 Afrikaans Stereo tlks, frequency anmt (Peck-NY)
            1/3 0220 pops, EZL (Davenport-TN) 1/22 0122 mx (Levison-PA)
            1/25 0057 EZL mx (Karcheski-MA) R Orion no longer here--sp
            2/10 0150 CNN nx, ID, Larry King (Brandi-NJ)
BURKINA FASO RTV 1/18 2345 FR TC, tlk, mx (Karcheski-MA)
4815p
            1/22 0708 FR nx, Afropops (Brandi-NJ)
4320
            HONDURAS HRVC 12/26 0145 shoutin preacher/Xmas mx (Newbury)
4320
            INDIA Calcutta 2/5 1248 EG addr, SC, jingle for Lifebuoy
            soap, sports tlk, Akashvani Calcutta, nx (Clark-ON) 1/30
            1510 Hindi/EG nx, ID (Howard-CA)
TIBET Xizang PBS 2/5 under Calcutta 1300 //5021, 6200
4320
            Tibetan tlk, class mx, WRTH says is inactive! (Clark-ON)
            PERU LV de la Selva 1/14 1000 huayños, Niños Musical (Daven.)
4324
4325
            BRAZIL Educ Bragança 1/4 0330 mx, ID (Davenport-TN)
4825
            BRAZIL Canção Nova 2/2 0503 rel, mx, ID (Field-MI)
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UKRAINE RU 1/9 1649 RS feature, folk mx, nx, ID (Serra-ITALY)
4825
            BOTSWANA RB 1/5 0410 faint tlk (Davenport-TN)
4830
            HONDURAS Litoral 0545 Xmas eve mx, ID, TC (Urbelis-NY)
4830
            1/22 1308 mx, full ID w/FC, mx, weak but there. Tnx Crawford-
            Johnson-Krueger-Parks-Valko for their work on this (Berg-MA)
            1/8 1320 pres w/SP tlks, weak (GP)
           VENEZUELA Táchira 2/2 0105 ballads, IDs, fair (Jordan-PA)
1/3 0216 pops, ballads, ID, promos (Davenport-TN) 1/1 0400
4830
            New Year anmt, NA, LA swing (Newbury-NE)
PERU Marañon 2/17 1040 TC, ID, música Andina (Paszkiewicz)
4834 9
            GUATEMALA Tezulutlan 1/3 0200 prayer, ID, anmt (Davenport-TN)
4835
            12/24 0230 Indian lang w/Silent Night (Newbury-NE)
4840
            VENEZUELA Valera 1/6 0240 ballads, xmtr probs (Davenport-TN)
            BOLIVIA Fides 1/7 2330 ad for banco nacional, romantic mx,
4845
            sev IDs (D'Angelo-GP)
            GUATEMALA Kekchi 1/14 0950 ID, folk mx (Davenport-TN)
48451
            MALAYSIA Radio 6 1/7 2152 Tamil ads, vcls (D'Angelo-PA) 1/6
4845
            2145 SC mx poking thru, Mauritania on 4829 (GP)
            MAURITANIA ORTM 0735 guitar mx, AR chants (Urbelis-NY) 1/13
4845v
            to 0057* AR tlks, audio hum (Davenport-TN) 1/16 2228 FR tlk, oud mx, fair (Brandi-NJ)
4855
            PERU La Hora 2/7 1100 nx & ID (Johnson-MD)
            INDIA Delhi 1220 Hindi mx, TP, ID, EG nx (Urbelis-NY)
4860
            1/3 1235 chants, some tlk //4910 (Davenport-TN)
RUSSIA RMWS 1/7 2252 theme mx, ID, nx & gone (Davenport-TN)
4860
            COLOMBIA LV del Cinaruco 1/3 0130 request pgm, Caracol (Daven.)
4865
            2/1 0115 ID, supermkt ad, sports tlk (Bickus-VA) 1/1 0500
            countdown to New Year, NA (Newbury-NE)
            BENIN ORTB 1/8 2200 Afr mx, tlk (Davenport-TN)
4870
            ECUADOR Centinela del Sur 2/5 0130 instls, echo IDs (Jordan)
4870
4874.4
            IRIAN JAYA Sorong 1/16 1200 nx, poss ID (Davenport-TN) 1/9 2131
            1cl nx, anthem (Clark-ON)
            BRAZIL R Roraima 1/4 0347 ads, pops, TC (Davenport-TN)
4875
4875
            CHINA Vo Jinling 1/3 1326 opera, folk mx (Davenport-TN)
            ECUADOR RN Espejo 1/5 0115 drama, ID, anmts (Davenport-TN)
4879.7
4885
            BRAZIL Clube do Para 1/13 0135 pops, echo ads, TC (Davenport)
            0336 lcl mx, IDs (Klinck-NY)
4885
            COLOMBIA Ondas del Meta 1/13 0350 ads, Caracol promos, IDs
            no sign of Brazil (Davenport-TN)
4885
            KENYA KBC 1/13 0409 EG nx abt Nairobi, NA? (Davenport-TN)
            1/15 2040 pops, TP, TC, ID, inspirational msg (Berg-VT) BRAZIL IPB AM 1/4 0411 rel tlk, EZL, poss ID (Davenport-TN)
4895
            GABON RFI 1/4 0400 FR nx, sig tune (Davenport-TN) 1/23 0520 FR tlk, ID (Bueneman-MO) Tnx!--sp
4890
            PERU Chota 1/13 0140 huayños, TC, ads, ment Chota (Davenport)
4890
            1/14 tent at 0110 car ad, mx, Para jovenes pgm? (Flynn-OR)
             1/7 0012 many IDs, long tlk (D'Angelo-PA)
1884
            EHARARMI 050% bildte/yernsmxglclsinfo (Hrbelischall-NY)
            2325 EG lesson (Davenport-TN)
4909.8
            ZAMBIA ZNBC 1/5 0335 tlks (Davenport-TN) much better mod here
            tnx Orr tip (Johnson-MD)
INDIA Jaipur 1220 Hindi mx, EG nx (Urbelis-NY) 1/28 1502 Hindi
4910
            pops, nx, Delhi relay 1530 (Flynn-OR)
4914.5
            PERU Cora 1/5 0132 ID, bad het (Davenport-TN)
            GHANA GBC 1/6 1844 afropops, TC, nx, IS, ID (Serra-ITALY)
1/13 0008 EG nx, tribal mx, sked (Davenport-TN)
ECUADOR R Quito 1/3 0126 pops, ID, ads (Davenport-TN) 2/1 0140
ID, ballad "Teamo" (Bickus-VA) 2/8 0452 concert listings for
Ballet Folklorico, sports skeds (Brandi-NJ)
INDIA Madras 1/8 1230 EG nx //4860 (GP)
4915
4920
4920
            BOLIVIA San Miguel 1/14 1021 nx, ID (Davenport-TN)
4925
            SUMATRA Jambi 2/6 1200 soft mx, anmts, IS (Washburn-ME)
4925
                                                                                  1/22
            tent at 2145 Muslim singing, tlk (Berg-MA)
            KENYA KBC 1/5 0351 pops, EZL, ID (Davenport-TN)
PERU Tropical 1/14 1001 tlks, huayños (Davenport-TN)
4935
4935
4940
            AS RUSSIA RM 1/5 0221 RS pops, tlks (Davenport-TN)
            INDIA Guwahati 1/24 0030 TP, SC mx (Brown-CO) 1/17 1530 nx //4910, weaker than Jaipur (Flynn-OR) 1/23 0030 prob Delhi
4940
             nx, SC, under Kiev (Clark-ON)
4950
             ECUADOR R Baha'i 2/12 1127 brass & HC mx, ID, tlks (Lamb-NY)
 4950
             PERU Madre de Dios 1/5 to 0245* ad strings, closing anmts
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w/o fanfare (Davenport-TN)
4953
            PERU Madre de Dios 1/23 1002 rel, prob prayers (Klinck-NY)
VIETNAM 1205 VT mx, anmts //10059 (Urbelis-NY)
4960
4961
            ECUADOR Federación 1/4 1148 morning pgm (Davenport-TN) 1/19
            0100 theme mx, ID, TC, Andean mx (Clar-NY)
            BOLIVIA Juan XXIII 2/8 1004 brass band, ID (Paszkiewicz-WI)
4965
4965.9
            PERU San Miguel 1/9 1027 OA vcls, TCs, IDs (D'Angelo-PA)
4966
            VIETNAM Son La 1/7 1234 //6329, tnx Yamada (GP)
4969
            PERU Imagen 1/8 1002 anmts, huayños, IDs (D'Angelo-PA)
            SHRI LANKA spec events? 2/6 1156 SC, Beijing on 1200 (Johnson) VENEZUELA Rumbos off here, still on 9660 (GP)
4970
4970
            UGANDA RU 0335 EG nx, PSAs, IDs, mx (Urbelis-NY) nx in lang (Davenport-TN)
4976
                                                                         1/4 0430
4980
            VENEZUELA Ecos del Torbes 1/21 1050 tlks, ad, IDs (Jordan-PA) 1/15 0147 ad string, ID, FC, TC (Davenport-TN) 1/9 1132 lcl
            mx, probably the one (Levison-PA) 1/1 0400 New Year anmt,
            NA, speech (Newbury-NE)
499C
            ARMENIA Yerevan 1/9 1623 lang/FR pops, IS, ID, nx (Serra)
499C
            INDIA AIR 1/24 0035 EG nx (Brown-CO) Madras 1/7 0024 vcls,
            deteriorating quickly (D'Angelo-PA)
            NIGERIA RN 1/2 1956 chorus, TP.ID, nx, afropops (Serra)
SURINAM Apintie 1/29 0330 instls, fast tlk, strong (Washburn)
PERU Ancash 1/19 1057 canned ID (Johnson-MD)
4990
499C
4991
5004
            RIO MUNI Bata 2040 SP/vern hilife, ID, nx (Urbelis-NY)
5005t
            NEPAL RN 1/9 1612 folk mx, tlks (Serra-ITALY) 1/29 1245 nx
            in NP, no ute! (Lawrence-NY)
5005.2
            SARAWAK Sibu 1/22 1328 pops, nx //4895 (Clark-ON)
            ECUADOR Radiofónica Pop 2/3 0210 mx, ID, good (Field-MI)
501C
            2/1 0037 Quechua pgm, SP canned ID (Johnson-MD)
5015
            BRAZIL Brasil Tropical 2/12 0010 pops, ads, echo ID (Lamb-NY)
5015.7t
            PERU Hispaña campo mx 1/14 1014. Tarapoto on 5020 (Johnson-MD)
5020
            COLOMBIA Ecos del Atrato 2/10 0335 TCs, pops, IDs (Lamb-NY)
            1/6 0247 wall to wall mx, little tlk (Davenport-TN) 2/3
            0305 mx 6 ment Colombia (Field-MI) 1/17 0243 IDs, mx (Klinck)
5025
            BENIN Parakou 0600 hilife mx, anmts (Urbelis-NY) 1/6 1750
            long tlk, chorus, ID 1809, guitar mx (Serra-ITALY)
5025
            BHUTAN BBS 1/8 to 1500* EG nx. mx (Howard-CA)
5025
            CUBA Rebelde 1/9 1228 SP 10 vocal songs (Pappas-SD) 2/10
             0342 ment Cuba but since when does Rebelde play Clapton &
             Whitney Houston? (Lamb-NY)
5025
             PERU Quillabamba 2/16 1023 IDs, buenos dias, poi tlk (Pasz.)
             BHUTAN BBS 1155 nx, Hindi type mx (Urbelis-NY) 1/29 tent at
5030
            1220 tlk/oriental mx (Lawrence-NY) 1/22 1245 mx, PSAs (Clark)
5034
            CENT AFR REP RTV 1/13 0431 FR ID, tribal mx (Davenport-TN)
5035
            KAZAKHSTAN Alma Ata 1/6 1735 chants, tlk //5260 (Serra-ITALY)
            1/16 1155 mx pgm //5260 (Johnson-MD)
            GEORGIA Tbilisi 1/9 1513 class mx, Govorit Tbilisi (Serra) 1/26 0258 RS IS, 6 chimes, anthem, ID, clas mx (Klinck-NY)
5040
            1/8 0300 IS, anthem, RS ID (GP)
SUMATRA Pekanbaru 1/9 2255 tlk, ID? SCI, nx (Clark-ON)
5040
            ANGOLA Benguela 1/22 0505 IS, ID, nx, lcl mx (Klinck-NY) 1/9
5043
             0351 pops, nx from Luanda, tribal vcls (D'Angelo-PA)
5047
            TOGO Lome 1/2 2015 lang poss comedy, FR ID, tribal mx (Serra)
            INDIA Aizawl 2/5 1230 ID, TP, EG Delhi nx //4860, my 1st log of this in 10 yrs trying, over China (Clark-ON)
TANZANIA RT 1/7 0403 EG nx, EZL, ID, Pan-Afr. pgm 0416 (D'Ang.)
Vo Pan-Africanist Congress 1/7 0414 ID, singing (GP)
5050
5050
             SINGAPORE R One 1/22 2205 EG pgm, pops, Brit accent (Washburn)
5052
5055
             FRENCH GUIANA Cayenne 0730 FR nx, EZL mx (Urbelis-NY) 2/10
            0410 FR FC, RFO ID, Jimmy Cliff mx (Lamb-NY) 1/27 0528 FR pol discuss (Klinck-NY) 1/16 2243 FR rap, R&B/ment Cayenne (Brandi)
5075
             COLOMBIA Caracol 1/14 0329 econ tlk, nx, IDs, ads (Serra)
             1/6 0308 Caracol por música y información (Peck-NY)
                                                                             1/9 1142
            interview?, ment Caracol & Colombia (Levison-PA)
PERU Eco 2/14 0400 vcls, ad, IDs, pops (Paszkiewicz-WI)
5097.2
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PERU R Vision 2000 1/20 2330 mx, IDs, ads (Peck-NY)
5131
           TIBET Xizang PBS 1200 nx, CH vcls (Urbelis-NY)
5240
           SUMATRA Sibolga 1/7 *2159 SCI, nx //Medan (D'Angelo-PA) 1/7
5256.5
           2259 OC then SCI (GP)
           PERU LV de Cutervo 1/19 0225 mx pgm (Field-MI) 2/7 0230* IDs
5661t
           & huavños (Johnson-MD)
           CLAND Vo Mojahed 0300 Farsi addr, phone #, mx, tnx Johnson
5699.9
           last hrd unjammed 1/18 (Rausch-NJ)
           PERU San Ignacio 2/5 to 0314* ID, TC, anmt (Rausch-NJ)
5700
           COLOMBIA R Majagual 2/7 0215 ID, tnx Avatar (Johnson-MD)
5720.5h
           USA WWCR 1/7 to 0816* EG ID (Pappas-SD) 1/23 0140 tlk abt
5810
           wiretapping (McGuire-MD) 1/11 0320 R Free America pgm (McGuire)
           ENGLAND BBC in PO 1/6 1706 nx, IDs (Serra-ITALY)
5875
           RS IDs, nx, into BG 0430 (Lamb-NY)
           VATICAN VR 1/12 2008 IT nx, plano & film pgms (Serra-ITALY) 2/2 2335 plano mx, EG ID (Field-MI)
5882
           BULGARIA R Varna 2/1 0309 IDs, tlk, weak (Field-MI)
BULGARIA RB in AL 1/6 1648 nx, "Ju flet RB", addr (Serra-ITALY)
5890
5895
           CROATIA Croatian R 1/11 2200 ID, EG nx //5920 (Rausch-NJ) 1/22
5895
            *2136 pops, tlk //5920, 9830 (Alexander-PA)
           CROATIA Croatian R 1/28 2200 EG nx (Washburn-ME)
5920
           KAZAKHSTAN Alma Ata 1/15 1130 CAs mx, IS, nx (Berg-MA)
BRAZIL Itatiaia 2/4 0909 ID, ad, sfx, jingle (Paszkiewicz-WI)
5960
5970
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As you might have guessed, this is finally being done on computer. There's

problems in printing though. The to Bill Oliver for making it look good last month despite its choppy appearance when I gave it to him. This month contributors from 16 states, l province, 2 countries. Next deadline March 18

Marina Pappas is ready for her novice test. Good luck!

FOR SALE: Palomar Engineering PF-300 S/C Audio Filter and P/S 95 A/C Power Adapter. Listed at \$175.00. Both brand new and never used. Will accept best offer plus shipping. Mr. R.R. Dailey, 1815 Kleber Street, Pittsburgh, PA 15212-1618.

WANTED: Literature on transistor radios from 1954 to 1970. Looking for magazine ads, photos, brochures, service manuals, fliers, catalogs, or written articles. National Geographic Magazines from 1955 to 1970 had many transister radio ads as did radio and electronics magazines from that era. I don't need the entire magazine, just the ads and transistor radio articles. Robert Ross, Box 1003, Stn. B, London, ONT, Canada N6A 5K1. Phone (519) 685-1167.

WANTED: A 600 ohm speaker for my R-1051B receiver. I will pay for this with an International Money Order and it will be sent to an address in the U.S.A., not Brazil. Emanuel Tavares Filho, P.O. Box 100.659, 24001-970 Niteroi, Rio de Janeiro, Brazil.

WANTED: Grundig Satellit 650 NIB in excellent condition. John T. Meredith, 1644 Parkside Circle, Niceville, FL 32578. Phone (904) 897-7734.

FOR SALE: Customized Beam Headings (from/to) and Distances (MI/KM) to over 480 WRTH transmitter sites including new Russian Republics. ITU Country Codes included. Send your locations or coordinates, \$6.95. NASWA Journals '91 and '92 complete. \$10.50 a year or \$20.00 for both. WRTH-91, \$8.95;'93, \$9.95. "Passport to World Band Radio" '92 and '93, \$7.95 each or \$15.00 for both. All items include shipping (overseas shipping extra). Cashiers check or money order only, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398, not collect, please.

5901-30000 kHz

International Band Loggings





5900nf? BELGIUM RVI in EG 0034, 1cl wx, ID, sports (Tucker GA 1/11) ED: Move from 5910? SWITZERLAND SRI in SP 0233, nx, ID, sked, fqys (Field MI 2/2) 5920 CROATIA CR in CR/EG 0726*, nx, ID, nx in EG from 0709-11, //5895 (Lamb NY 1/21) in CR/EG 2208+, nx in EG, rock mx, tlks (Brandi NJ 1/21, Karcheski MA 1/16) 5930 CZECH REPUBLIC R Prague in EG *0000, IS, ID, sked, nx, mx, mail (Jordan PA 1/17) SLOVAKIA R Slovakia Int in EG 0105, history of Danube River, g (McGuire NY 1/2) 5930 BOLIVIA R Pio Doce in SP 0908, campo huaynos, TCs, ID, birthday greetings to 59457 listeners, LAm vocals, strong QRM WYFR *1000 (D'Angelo PA 1/7, Orr GPDX 1/7) CANADA R Japan relay in EG 0330, features, ID (Cleveley NY, McGuire, Newbury NE) 5960 ANTIGUA BBC relay in EG 0330, nx, sports, ID (Robertson CA, McGuire, Cleveley)
BRAZIL R Guaruja in PT 0833, pops, ads, ID, QTH (Lamb NY 1/14, Orr GPDX 1/7) 5975 5980 5984u CONGO RTV Congolaise in FR 0450, ID, nx, tlks, bad QRM WYFR (Cleveley NY 1/19) 5965 BRAZIL R Transamerica in PT 0904, relig ballads, ID, campo mx (Orr GPDX 1/8) MYANMAR V of Myanmar in lang 1206, Asian pop ballad pgm, tlks, f (Orr GPDX 1/8) 5990 PERU R Melodia in SP 0955, anmts, IDs, L Am mx (Klinck NY 1/30)

CANADA CFCX Montreal in EG 1345, C&W mx, ads, ID, MW relay (Anderson MI 1/15) 59953 6005 6006 COSTA RICA R Reloj in SP 1050, polit tlks, interviews, L Am nx items, IDs on the half hr, f (Jordan PA 1/12, Urbelis NY) RWANDA Deut Welle relay in EG 0405, nx, cmntry, African nx (Galgano NY 1/30) 6015 DOMINICAN REPUBLIC R Amanecer Int in SP 0050, relig mx & tlks, IDs, slogans, TCs 60249 co-channel QRM from R Budapest (Clar NY 1/9, Klinck NY 1/14, Urbelis NY) SMAZILAND TWR in lang 0357, relig pgm, IS, ID, VOA underneath (Paszkiewicz WI)

ANTIGUA D Welle relay in EG 0108, New Year's greetings, pgm notes (Newbury NE)

OLOMBIA R Melodia in SP 0942, ranchera/salsa mx, IDs, anmts (Orr GPDX 1/7) 6040r £? 6040 6045f v 60501 MALAYSIA RTM Sibu in lang 1337, lcl mx, tlks, p w/splash QRM (Clark ONT 1/22) 60550 PERU R Continental in SP 0801, anomts, ID, SP pop mx, f (Alexander PA 1/29) 6060 AUSTRALIA RA in Cantonese/EG 1322, Asian mx, EG ID 1325 (Tucker GA 1/28) 6070 CANADA CFRX Toronto in EG 1700, MW relay, IDs, ads, feature (Robinson TN 1/2) 60698 INDONESIA RRI Jayapura in IN 1242, Beatles mx, hrd past 1300 (Johnson MD 2/7) BULGARIA RB in IT 1933, class mx, cultural pgm re poet (Serra ITALY 1/6)
PERU R Nacional in SP 0400, IDs, ballads, mentioned Tacna (Paszkiewicz WI) 6085 6095 VATICAN STATE VR in EG 0258, interview, ID, IS, into SP 0315, g (Lamb NY 1/25) 6095 BRAZIL R Cultura in PT 0143, Brazilian/Lionel Richie pops, ID, fqy, f (Lamb 2/8)
COLOMBIA LV del Llano in SP 0020, ads, phone tlk, TC, Caracol ID, g (Lamb 2/8)
SPAIN REE in SP 2232, mx, ID, L Am nx, interview re L Am, f-g (Lamb 2/4) 6105 6116 6130 6140 AUSTRALIA ABC Perth in EG 1245, call-in, MW relay, nx re storm off Queensland, 7/9610, off the air "for good" after 1/19 (Johnson MD, Newbury NE, Lamb NY) 6155 SINGAPORE R One in EG 1605*, pop mx, TCs, nx, wx, IDs, vg (Howard CA 1/29) 6155 ROMANIA R Romania Int in EG 0200, ID, mx, barely readable (McGuire NY 1/23) AUSTRIA RAI in GM 2219, arts feature, folk mx, ID, into SP 2230, f-g (Lamb 2/4) 6155 VIETNAM VOV Hanoi in VT 1215, hill tribe mx, QRM, //50315 (Clark ONT 1/22) 61661 PERU R Tawantinsuyo in SP 1032, vcls, ID, fanfare, anmts, f (D'Angelo PA 1/7) 61733 MALAYSIA VoM in IN 1225, tlk, lively mx, fanfare, ID, nx?, //9750, this is external Indonesian Service (Clark ONT 1/22, Johnson MD 1/17) 6174 } 6185 MEXICO R Educacion in SP/EG 0550-0730, guitar mx, ballads, IDs, QTH, req mail, stn seems to be using more EG lately (Robertson CA 2/7, Pappas SD 1/6) ANTIGUA Deut Welle relay in EG 0510-0550*, ID, IS, fqys, QTH, some QRM from R Educacion (Robertson CA 2/8, Newbury NE) 6185 6190 YUGOSLAVIA RY in EG 0100, ID, nx, war update, sports, 9 note IS, NA (McGuire NY, Tucker GA 1/26, Bickus VA 2/1, Flynn OR 1/8) BOLIVIA R Metropolitania in SP 0925, LA mx, anmts, TC, ID (Klinck NY, Flynn OR)
ECUADOR HCJB Quito in Tajik/Uzbek/RS 0120, tlk re Qu'ran, ID 0130, Tajik & Uzbek 61961 6205 orchestra, 3+1 pips, into RS 0150, nx, //9600 (Jordan PA 2/7, Peck NY 1/12) SO KOREA RK in IT 2030, IDs, lcl mx, nx, country, fqy, sked (Serra ITALY 1/12)
PERU Estacion C in SP *1100, IDs, organ mx, relig pgm w/preaching (Orr GPDX 1/9, 6480 64983v Klinck NY 1/29, D'Angelo PA 1/9) 65495 LEBANON Vol in Lebanese *0355, IS, slo version of "Bridge Over the River Kwai"

choral NA, anmts, mx pgm (D'Angelo PA 1/8)

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67243
            PERU R Satelite in SP 2340, flute mx, TC, ID, DJ hosting lively OA vocals, lots
            of chatter (D'Angelo PA 1/7, Rausch NJ 1/21)
            PERU R Ondas del Rio Mayo in SP 1112, DJ hosting pgm of huaynos, anmts, ID, QTH,
68034
            TCs, slogans (Orr GPDX 1/9, Klinck NY 1/29)
IRAN Voice of Iran in Farsi 1930, IS, ID, theme mx, nx, tlk (Orr GPDX 1/8)
7100nf?
            ETHIOPIA VOE in Amharic 0500, Afro mx, ID, tlks, f-p (Cleveley NY 1/19)
7110
7115nf
            SLOVAKIA AWR relay in EG 0335, test xmsn, IDs in EG/FR/GM,IT, QTH, req rpts,
            relig mx, IS (D'Angelo PA 1/8, Orr GPDX 1/8, Newbury NE 1/6)
            INDIA AIR in HD 0122, subcont mx, anmts, f-p (Clar NY 1/9, Humenyk ONT 1/6)

TTALY IRRS Milan in EG 0840, UN mx, ID, "Week in Review" (Serra ITALY 1/2)
7125
7125
71255v
            GUINEA RTV Guinenne in FR 2400*, mx, nx, ID, NA (Brandi NJ 1/22, Alexander 1/21)
7130
            GERMANY D Welle in GM 0140, mx, tlk (Newbury NE) in IN 2300, ID, mx (Galgano NY)
            GERMANY D Welle in GM 0235, classical mx, cmntry (Humenyk ONT 1/6)

SO AFRICA Capital R in EG 0330, US pope, rock mx, ID "..the station with an attitude", QTH, nx (Field PA 1/14, Karcheski MA 1/18, Orr GPDX 1/7, D'Angelo PA)
7140
71494
7150
            BYELARUS R Minsk in BY 0048, tlk, ID, choir mx, g (Peck NY 1/20)
            RUSSIA R Vilnius via Armavir in EG *0000-0028*, IS, ID, nx, "Letterbox", EG for
7150
            1/2 hr on Sun-Mon, 5 min weekdays (Lamb NY 1/30, McGuire NY, Karcheski MA 1/19)
            GREECE VOA relay in Georgian 2032, mx by The Monkees, g (Humenyk ONT 1/8)
7205
            SPAIN RFE/RL in RS 0325, cmntry re the ruble, ID, exc (Humenyk ONT 1/8)
TTALY AWR-Europe in IT 1117, "Radio Magazine", ID, mx, QTH (Serra ITALY 1/2)
7220
7230
            ZAMBIA RZ Lusaka in EG 2130-2207*, relig pgm, choral anthem, p (Clark CNT 1/29)
UKRAINE RU in UK 1600, cmntry, nx, ANARC SWL Net QRM (Brandi NJ 2/6)
7234
7240
7265
            BOTSWANA VOA relay in EG 0400, "Daybreak Africa", sports, mx (Cleveley NY 1/19)
            SLOVAKIA AWR Voice of Hope in EG 0105-0300*, "Your Story Hour", promos, mx, IDs, into Christian pgm in HD 0200 (Clar NY 1/9, Paszkiewicz WI, Alexander PA 1/23)
7270nf
            GERMANY RFE/RL in Kazakh 0039, tlk re RS finan minister, g (Peck NY 1/21)
7275
            RUSSIA R France Int relay (site?) in Lao 1124, nx, cmntry, pops (Orr VA 1/14)
7305nf?
            SLOVAKIA R Slovakia in EG *0100, IS, ID, sked, nx, tlks, //5930 (Jordan PA 1/17)
7310
7370
            TURKEY TK Police R Ankara in TK 1528-1610, Mideast mx w/vocals, no definite ID
            but nothing else fits on clear channel (Flynn OR 1/10) ED: Nice catch on WCNA.
            COSTA RICA RFPI in EG 0823, Bible reading, rel mx, f-g (Bueneman MO 1/23)
7385
             INDIA AIR in Nepali 1415, mx, long tlk, p (Pappas SD 1/10, Newbury NE 1/8)
7412
            HAWAII KWHR Naalehu in EG 1701, nx, ID, tlk (Serra ITALY 1/5)
7425
            BULGARIA RB in BG/EG 0240, folk mx, tlk, ID, nx (Peck NY, Tucker GA, Levison PA)
7455nf
7470
            GREECE VoG in IT 1929, disco mx, IDs in GK/IT, nx, //9380 (Serra ITALY 1/1)
7475
            TUNISIA RTVT in AR 0500, nx, chants, folk mx, ID (Cleveley NY 1/19, Peck NY 1/8)
            CHINA CPBS-1 Xi'an in CH 1515, tlk, class mx, ezl pops, ID (Serra ITALY 1/2)
7504
9325
            NO KOREA R Pyongyang in GM 2135, tlk, ID, lcl pop songs, f (Peck NY 1/22)
9355
            NO MARIANAS NHBI Saipan in EG 1815, debate re NATO, flute mx, ID (Serra 1/7)
9420nf
            CZECH REPUBLIC R Prague in EG *1800, IS, ID, nx, feature (Rausch NJ 1/26)
9475
            EGYPT R Cairo in EG 0210, AR mx, Koran readings, p (McGuire NY 1/23)
9480
            ARMENIA R Yerevan in Armenian 2320, tlk, choral mx, songs, ID, f (Peck NY 1/8)
9510
            AUSTRALIA RA in Cantonese 1300, nx, pop vcls/instrwls, ID, IS (Jordan PA 1/27)
9530nf
            SINGAPORE R Singapore Intl in EG 1115-1300, testing 150 kw xmtr w/ID over class
            mx loop tape, say that reg pgming will begin 2/1 from 2300-2400,1100-1300 UTC, QRM from VOA & Veritas (Rausch NJ 1/26, Ducharme MA 2/1, Berg MA 1/30)
            SO AFRICA Channel Africa in FR *0250, IS, IDs, TC, lcl nx, f (Lamb NY 1/18)
9520
            UZBEKISTAN R Tashkent in EG 1200, IDs, tlk on agri production, mx (Robinson TN)
INDONESIA RRI Palangkaraya in IN 1212*, tlk, instrml mx, "Song of the Coconut
9540
9545
            Islands at 1158, Jakarta nx 1200, abrupt s/off (D'Angelo PA 1/7, Clark ONT 1/30)
9560
            JORDAN R Jordan in EG 1709, nx, wx, TC, pgm notes, mx (Clar NY, Newbury NE)
9565
            GERMANY D Welle in EG 0144, tlk re relations with Poland, g (Lane ONT 1/27)
            ALBANIA R Tirana in EG 0135, national nx, ethnic mx, p (McGuire NY 1/9)
MOLDOVA R Dniester Int in EG 2145, tlk re Moldova, lcl folk mx, ID (Peck NY 1/8)
9580
9620nf?
            CANADA R Korea relay in EG 1135, EG/KR lang lesson, f (Levison PA 1/21)
9650
            VENEZUELA R Rumbos Caracas in SP 0650, LA ballads, ID 0655, g (Robertson CA 2/8) RWANDA D Welle relay in PT 2050*, African mox, fqys, site ID in FR (Lamb NY 1/16)
96594
9670
9675nf
            PAPUA NEW GUINEA NBC Pt Moresby in EG 1157-1340, US pop classic rx, 1cl vocals,
            wx, ID (Jordan PA 2/3, Karcheski MA 1/14) also in EG 1947-2115, soft rel choral
            mx, pips, NBC nx, ezl pops (Orr GPDX 1/8, Clark ONT 1/29, Urbelis NY) TURKEY VoT Ankara in TK 1705-2000, TK mx, IDs, info, //9460 (Urbelis NY)
9685
            BRAZIL R Rio Mar in PT 1258, upbeat mx, ID 1300 (Johnson MD 2/7)
96945
9700
            NEW ZEALAND RNZI in EG 1025, feature, ID, Pacific Island mx (Tucker GA 2/1)
9705
            PORTUGAL RDP Lisbon in EG 0250, features on botany & wine, ID (Unruh WA 1/4)
             ITALY RAI in EG 1943, "Hello Italy" travel/culture feature, ID, mx (Clar NY)
 9710
 9770
            AUSTRALIA RA in EG 1506, nx re LA earthquake, ID, "Asia Focus", g (Lamb NY 1/18)
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9785
            GUAM KTWR in CH 1528*, relig mx & tlk, s/off tlk w/ID, f (Lamb NY 1/18)
 9830
            CROATIA CR Zagreb in CR/EG 0800, ID, nx, wx, EG 0803, CR 0810 (Serra ITALY 1/2)
 9840
            KUWAIT RK in AR 2021, ME mx, ID, tlks, phone interview, f-q (Lamb NY 2/11)
 9860
            UKRAINE R Ukraine in RS 1930, UK/RS Xmas songs, ID, tlk, f (Peck NY 1/8)
 9870
            SAUDI ARABIA BSKSA in AR 2002, nx, IDs, classical mx, //9555, g (Lamb NY 2/11)
 9900
            EGYPT R Cairo in AR 0235, AR mx, cmtry (Unruh WA) EG 2115, nx, AR mx (McGuire TN)
            BELGIUM R Vlaanderen Int in EG 0755*, mail, folk mx, feature, //5910 (Serra 1/2)
 9925
 99651
            CHINA CRI Beijing in IT 1831, nx, wx, ID, cmntry, //7405, 7470 (Serra 1/7)
11040
            CHINA CPBS in CH 0015, CH folk instmls, rapid-fire tlk by W, p (Peck NY 1/21)
11335
            NO KOREA R Pyongyang in EG 0000, NA, ID, tlk, KR mx,//13760 (Lamb 2/9, Peck 1/21)
11375
            CHINA CPBS in Tibetan 0020, tlk, CH pop mx, bells IS 0030, f (Peck NY 1/21)
11587
            ISRAEL Kol Israel in EG/FR 1812, tlk re peace tlks, nx re US quakes (Peck 1/22)
11603
            ISRAEL Kol Israel in EG 2240, tlk on ME peace proposals, ID, p (Unruh WA 1/14)
            PHILIPPINES FEBC in EG/Lahu, *2312, IS, ID in EG, into Lahu pom (D'Angelo PA 1/6)
PHILIPPINES FEBC in EG 0928, IS, ID, nx, "Computer Corner" (Rausch NJ 1/13)
11650
11690
            SRI LANKA VOA relay in EG 0153, "VOA Wednesday Morning", speech, p (Lamb NY 1/27)
11705
            SPAIN REE in EG 1945, "Spanish by Radio", ex 15375 (Rausch NJ 1/26)
SRI LANKA SLBC in lang 1715, subcont mx, ID/fqy in EG, IS, mx (Ducharme MA 2/1)
11775nf
11800
11805
            BRAZIL R Globo in PT 0810, mostly tlk by 2 M w/mx bridges, IDs, f (Ducharme 1/17)
11910
            ITALY RAI in IT 0433, ID in IT, mx, cmntry (Tucker GA 1/28)
11925
            BRAZIL R Bandeirantes in PT 0425, pop songs, Mr Bojangles in PT (Newbury NE 1/4)
11939
            PARAGUAY R Encarnacion in SP 0200, gaucho & classical mx, ID (Clark ONT, Lamb NY)
            JORDAN R Jordan in AR 0145, AR mx, ID 0200 in AR (Tucker GA 1/10)
11940
11940
            SINGAPORE SBC Radio 1 in EG 1252, pop vocal, Toyota ad, this fgy shut down on
            1/23, switched bost to 5052 hereafter w/new xmtr (Clark ONT 1/22)
            SEYCHELLES FEBA in Farsi 1812-1830* relig pgm, piano mx, chimes IS (Orr GPDX 1/7) FRENCH GUIANA RPI relay in PT 0034, arts tlk, ID, IS, //15200, f-g (Lamb NY 2/9) VIETNAM VOV Hanoi in EG 1820, ID, feature, lcl mx, sports (Serra ITALY 1/11) RUSSIA V of the Assyrians(t) in Assyrian *1600, s/on w/piano mx theme, tlks, folk
11955nf?
11995
120207
12075 if?
            mx, very poor signal, RM IS 1659, RM pgmg 1700 (Berg MA 1/8, Peck NY 1/22)
12085
            BULGARIA RB in EG 1630, ID, DX bulletin, co-channel QRM Syria (Ducharme MA 1/21)
            KUWAIT RK in EG 1800, tlk on peace negotiations, ID, "Artists Eyes", mx, nx, 5+1
13620
            time pips, also hrd xmsn in AR 1315-1500 (Jordan PA 1/29, Peck NY 1/22)
13650
            NO KOREA R Pyongyang in EG 2300, nx, rpt on Communist achievemts (Unruh WA 1/3)
            CROATIA Croatian R in CR 1705, drama, SFX, classical mx, IS, ID, nx (Lamb 1/22)
COSTA RICA RFPI in EG 1330, ID, fqys, features, tlks (Tucker GA, Anderson MI)
13830
15030
15095
            SYRIA R Damascus in FR 2000, AR songs, ID, nx, //12085 (Serra ITALY 1/12)
            SPAIN REE in SP 1130, IDs, romantic ballads, nx of Barcelona (Robinson TN 1/16) GABON R Japan relay in IT 1945, ID, TC, 1qy, nx, 1cl mx, promo (Serra ITALY 1/1)
15110
15195
            SAUDI ARABIA BSKSA in AR 1735, lecture, ID, prayers, contry, mx, f (Unruh WA 1/6)
15345
15435
            LIBYA R Jamahiriya in AR 1950, tlks, ID, mx sels, Big Ben 2015, nx? (Jordan 1/21)
15475
            GABON Africa #1 in FR 1800, ID..'Africa bon soir', songs, sports nx (Robinson TN)
            ISRAEL Kol Israel in EG 1358, IS, ID, nx, wx, feature (Tucker GA, Urbelis NY)
HONDURAS R Copan Intl in SP/EG 2256, vocals, ID in EG, deep fades (Flynn OR 1/7)
15640
15675
            In SP 2009-2140, tlk pgms, many refs to L Am countries, ID's, mx (Jordan PA 1/30) PAKISTAN RP in EG 1630*, slo speed nx bulletins, fqys, f-g (Flynn OR 1/5)
15675
            USA WINB Red Lion, Pa in EG 2106, relig & ezl mx, ID, fqy, QTH, "Evangelistic
15715nf
            Faith Missions", f-g (Lamb NY 1/16, Jordan PA 1/9)
17490
            ECUADOR HCJB Quito in EG 0110, cmntry on asteroids & computers (Levison PA 1/12)
            SO AFRICA Channel Africa in EG 0655*, feature, sax & reggae mx, ID (Serra 1/16)
17710
17860
            FRENCH GUIANA RFI relay in FR 1513, pop mx w/intros in FR,//21645 (Tucker GA 2/6)
17890
            COSTA RICA REE relay in SP 2015, futbol, site ID, pips, //17870 (Jordan PA 1/13)
            PORTUGAL RPI in EG 1530, nx, fqys, sked, "Challenge of the 90's" (Levison 1/19) BELGIUM R Vlaanderen Int in EG *1400-1425*, "Brussells Calling", nx (Jordan 1/7)
21515
2181C
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CLANDESTINE STATIONS

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625(v VO Mojahed in Farsi? 0308, strident tlks, ment move to 6240 (Orr GPDX 1/8)
677( VO Tigray Revolution-Ethiopia in Tigray *0359, IS, flute theme, echo ancmt 0400,
ID? ment Tigray, mx bridges between M&W tlks, wild mx (Orr GPDX 1/8)
1132( Nat R of the Arab Saharan Republic in AR 1947, AR string mx, children's chorus,
ID 1954, organ theme 2000, nx headlines (Orr VA 1/9)
117149 VO Palestine-Algeria in AR 1735, non-political pgmg, lute mx, fqys (GPDX 1/7)
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156745 R Roquero-Honduras in SP 2200, Cuban-exile pomp (GPDX 1/8) Details Dec LN p. 29

English Schedules

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Prepared 2/19/94 at 7:10 AM.

Thanks to John Carson (OK), Dan Ferguson (VOA), Bob German (George Jacobs & Associates), Joe Hanlon (PA), Adam Lock (WWCR), Hans Johnson (MD), Jonathan Marks (R Netherlands), Dr. Adrian Peterson (AWR) and Andy Sennitt (WRTH).



Will you be in Kulpsville March 11 and 12? The seventh annual Winter SWL Festival is upcoming. We'll see you there.

New

A new international service opened February 1. Radio Singapore International broadcasts in English 11-13 and 23-24 UT on 9530. The morning release is relatively easy to hear

when propagation approaches normalcy.

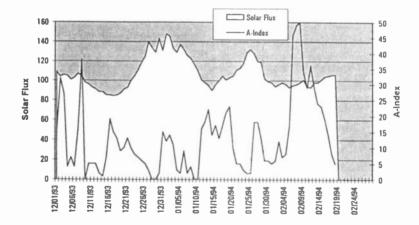
Notes

The intense geomagnetic storm that began on February 6 was one of the most persistent events that I can recall. The slow decay of the A-index is quite apparent in the graph below. Propagation conditions were affected for more than two weeks.

Swiss Radio's new 5905, via Brazil, is a disaster. The USAF weather on 5904 is 75 baud, 850 Hz RTTY from long-time resident Offutt AFB near Elk Horn, NE.

WWCR rebroadcasts Spectrum on UT Monday at 0400 on 7435. For those in the central NJ or Philadelphia areas, the full 90-minute show airs on WIFI-1460 Florence, NJ, UT Sunday 0300-0430 UT.

Solar Flux & A-Index: Dec 1993-Feb 1994



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Internet 2446376@mcimail.com

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KHBI/2

9355

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SCHEDULES BY SHIPSYRON LAST START Update End Country TARGET AREA Notes STATION FREQUENCIES 0000 01/29/94 LAm/NAm 2400 Costa Rica R for Peace Int'l 214650 15030 93750 7375 NA/Fu Tu-Sa only 5min news 02/11/94 0030 Lithuania R Vitnius 7150 02/06/94 **KCBI** NAm 0200 USA 13740 02/18/94 alt 7465 cAm/SAm 0200 USA WSHB/2 9430 0100 NAm/CAm 02/05/94 Swiss R Infl. 0130 Switzerland 9885 6135 5905 02/06/94 eNAm 0130 Yugoslavia R Yugoslavia 6195 0200 02/18/94 alt 7465 Mex 0300 USA WSHB/2 9430 0300 02/06/94 1400 USA **KCBI** NAm 9815 02/19/94 Africa 0400 USA VOA 9885 9575 7430 7405 7280 7265 7105 1530 621 0400 NAm 01/29/94 0450 Turkey V of Turkey 9445 02/18/94 Ъ Af 0500 USA WCSN 9840 0430 02/10/94 c&sAm **BBC World Service** 0500 United Kingdom 5975 5975 0500 02/10/94 0730 United Kingdom BBC World Service 9640 5975 5075 c&sAm 02/18/94 Af WCSN 0600 USA 9840 0600 02/16/94 0800 Malta ME V of the Mediterranean 9765 1557 02/19/94 ME/nAt/Eu 0630 USA VOA 15205 11825 11805 7325 7170 7120 6060 6040 5995 02/18/94 UK/wEu 0800 USA WSHB/1 7510 0630 02/19/94 0700 USA VOA 6873L 6060 6040 5995 ME/nAf/Eu 15205 11825 11805 7325 7170 7120 0730 02/10/94 c&sAm 0815 United Kingdom **BBC World Service** 9640 1100 02/05/94 1300 Singapore Regional Svc R Singapore Int1 9530 1330 01/29/94 swAs 1400 Turkey V of Turkey 9675 01/29/94 Aus 1400 Yugoslavia R Yugoslavia 11865 1400 02/16/94 **EL/ME** 1600 Malta V of the Mediterranean 11925 02/18/94 China alternative use 1600 N Mariana is KHBI/2 9430 1500 02/06/94 2330 USA **KCBI** Canb 15725 1600 alt 9430 @ 310 02/18/94 sAf 1700 N Mariana Is KHBI/2 13625 Eu/sNAm alternative use 02/18/94 1800 USA WSHB/1 15665 1700 02/18/94 eAf alt 9430 @ 310 1800 N Mariana Is KHBI/2 13625 1800

Eu/ME

02/18/94

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START				•		SCHEDULES	RY SURSSTROM			Last
End	Country	STATION	FREQUE	NCIES				TARGET AREA	Notes	Update
1900 2000 2000	USA	WSHB/2	15665					eEu/CIS		02/18/94
2030 2030 2100 2200	Portugal Portugal USA USA	R Portugal R Portugal WCSN WSHB/2	9780 15515 13770 15665	11975				Eu Af Af UK/o&wEu	Mo-Fr Mo-Fr alt 7510	01/28/94 02/12/94 02/18/94 02/18/94
	Turkey USA	V of Turkey WCSN	9445 13770					Eu Al/Eu	alt 7510	01/29/94 02/18/94
2300 2300	N Mariana Is USA	KHBI/1 WSHB/1	13625 9355					Japan/Kor/CIS Eu/eNAm	alt 9355 alt 5850	02/18/94 02/18/94
2245 2300 2300	USA	VOA	15160	11835	9670			Anerican Republics	Mo-Fr OAS	02/19/94
2400 2400 2350	N Mariana Is Singapore Turkey USA	KHBI/1 R Singapore Int'l V of Turkey WSHB/1	13625 9530 11895 9355	9445 9355	7185			Regional Svc Eu/NAm/ME	alt 9355 alt 5850	02/18/94 02/05/94 01/29/94 02/18/94

								- 1100	-		-	-	_	_	_	_	_	
	DAY	XMSN START	SHOW	Program	COUNTRY	STATION		FQ.	Fq.	FQ.	Fq.	Fq.	Fq.	Fq.	Fq.	FQ.	FQ.	PGM NOTES
				W. 14 4 B. 4	1101	WWW.O.D.		74000	-	5	~	0		•	•	9		1
	Monday	0000	0000	World of Radio	USA	WWCR		7435.0	47040.0	4777000	45405.0	440000	440400					l l
	Monday	0100	0130	Media Roundup	Japan	R Japan			17810.0	1///5.0	15195.0	11860.0	11840.0					
	Monday	0100	0135	SW Feedback	South Korea	R Korea		5575.0										
	Monday	0100	0135	SW Feedback	South Korea	R Korea		7550.0										l l
	Monday	0100	0145	DX Program for	Bulgana	R Bulgaria		9700.0	7455.0									
	Monday	0000	0400	Spectrum	USĂ	WWCR		7435.0										repeat
	Monday	2138	0430	Mailbag	New Zealand	R New Zealand Int'l		5115.0										biweekly
	Monday	0600	0635	SW Feedback	South Korea	R Korea			11945.0									
	Monday	0600	0635	SW Feedback	South Korea	R Korea		7275.0										
	Monday	0600	0700	Hello There	Italy	Italian Radio Relay Sen		7125.0										mailbag show
	Monday	0000	0700	World of Radio	Costa Rica	R for Peace Int'l			15029.8	9375.1	7374.8							
	Monday	0730	0735	Radio World	Belgium	R Vlaanderen Int'l		9925.0	5910.0									
	Monday	0600	0815	Hello There	Italy	Italian Radio Relay Sen	ν	7125.0										mailbag show
	Monday	1000	1005	Radio World	Belgium	R Vlaanderen Int'l	2	1815.0	17515.0	9905.0								
P	Monday	1000	1040	DXers Calling	India	AR	2	1735.0	17895.0	17387.0	15050 0							
D	Monday	0600	1330	Hello There	Italy	Italian Radio Relay Sen		7125.0										mailbag show
39	Monday	1400	1405	Radio World	Belgium	R Vlaanderen Int'i			17590.0									
0	Monday	1330	1435	DXers Calling	India	AR	1:	5120.0	11760.0									
	Monday	0000	1500	World of Radio	Costa Rica	R for Peace Int'l			15029.8	9375.1	7374.8							
5	Monday	1745	1840	DXers Calling	India	AIR		5080.0	11935.0	11860.0	11620.0	9950.0	7412.0					
5	Monday	1900	1945	For Radio Amateurs	Romania	R Romania Int'l		1940.0	9690.0	6105.0	5955.0	0000.0						
	Monday	0600	2000	Hello There	Italy	Italian Radio Relay Sen	ν .	7125.0	5000.0	0.00.0	0000.0							mailbag show
	Monday	2045	2130	DXers Calling	India	AR	1	5265.0	11715.0	11620.0	9950.0	9910.0	7412.0					
	Monday	2100	2145	DX Program for	Bulgaria	R Bulgaria	,	9700.0	6085.0	11000.0	0.000.0	0010.0						
	Monday	2100	2145	For Radio Amateurs	Romania	R Romania Int'i		96900	7195.0	7105.0	6105.0	5990.0						
	Monday	2230	2250	DX Corner	Israel	Kol Israel			11585 0	7465.0	0100.0	0550.0						
	Monday	2230	2250	DX Corner	Israel	Kol Israel		1675 0	110000	7 700.0								
	Monday	2230	2250	DX Corner	Israel	Kol Israel		7575.0	9435.0									
	Monday	2230	2253	Hello DXers	Lithuania	R Vilnius		9710.0	9675.0	1557.0	666.0							biweekly
	Monday	2230	2254	For Radio Amateurs	Lithuania	R Viinus		9710.0	9675.0	1557.0	666.0							biweekly
	Tuesday	0000	0023	Hello DXers	Lithuania	R Vilnius		7150.0	3073.0	1007.0	000.0							biweekly
	Tuesday	0000	0024	For Radio Amateurs	Lithuania	R Vilnius		7150.0										biweekly
	Tuesday	0100		DX Program for	Bulgaria	R Bulgaria			7455.0									DIWCCKIY
		1100	1130		Australia	R Australia			15170.0	12605.0	9580.0	9560.0						
	Tuesday	1230		Communicator		R Sweden			15120.0		5000.0	3000.0						1st & 3rd Tu/mo
	Tuesday		1240	Mediascan World of Podio	Sweden	WWCR		5685.0	13120.0	13/00.0								150 01 310 10/1110
	Tuesday	1100	1330	World of Radio	USA				or or o	70700	71450	C40C 0						
	Tuesday	1300	1335	DX Program	Poland	Polish Radio Warsaw			9525.0	7270.0	7145.0	6135 0						
	Tuesday	1300	1345	For Radio Amateurs	Romania	R Romania Int'l	_ !	7//5.0	17720.0	15365.0	11940.0							1at 9 2ad Turima
	Tuesday	1430	1440	Mediascan	Sweden	R Sweden			15240.0									1st & 3rd Tu/mo
	Tuesday	1500	1515	World of Shortwave	Seychelles	FEBA			9810.0	0770.0	00000	0540.5	7000 0	2040.0	00000	00000		
	Tuesday	1430	1530	Communicator	Australia	R Australia	1	1800.0	11660.0	9770.0	9580.0	9510.0	7260.0	7240.0	6080.0	6060.0		
	Tuesday	1800		DX Program	Poland	Polish Radio Warsaw		9525.0	7285.0	2000								
	Tuesday	1800	1830	DX Program	Poland	Polish Radio Warsaw		9525.0	7285.0	7270.0								4 . 0 0 . 7 .
	Tuesday	1830	1840	Mediascan	Sweden	R Sweden		5145.0	9655.0	6065.0	1179.0							1st & 3rd Tu/mo
	Tuesday	0000	1900	World of Radio	Costa Rica	R for Peace Int'l	2	1464.9	15029.8	9375.1	7374.8							

						DX	PROG	RAMS	BY S	UNDST	ROM						
DAY	XMSN	SHOW	PROGRAM	COUNTRY	STATION		FQ.	FQ.	FQ.	FQ.	FQ.	FQ.	FQ.	FQ.	FQ.	FQ.	PGM NOTES
	START	START					1	2	3	4	5	6	7	8	9	10	
Tuesday	1900	1930	Communicator	Australia	R Australia		11880.0	11720.0		11660.0	9580.0	7260.0	7240.0	6080.0	6060.0	5980.0	
Tuesday	0000	1930	Mailbag	Costa Rica	R for Peace Int'l		21464.9 9525.0	15029.8 7285.0	9375.1	7374.8							
Tuesday	2030	2055	DX Program	Poland	Polish Radio Warsaw		9525.0	7285.0	6135.0	1503 .0							
Tuesday	2100 2130	2130 2140	DXers Unlimited Mediascan	Cuba Sweden	R Havana R Sweden		15165.0 9655.0	6065.0	1179.0								1st & 3rd Tu/mo
Tuesday Tuesday	2230	2240	Mediascan	Sweden	R Sweden		6065.0	1179.0	1173.0								1st & 3rd Tu/mo
Tuesday	2200	2250	DX News	Hungary	R Budapest		11910.0	9835.0	7220.0	6110.0							
Tuesday	2245	2340	DXers Calling	India	AIR		15145.0	15110.0		11715.0	9910.0						
Tuesday	2330	2340	Mediascan	Sweden	R Sweden		11910.0	1179.0									1st & 3rd Tu/mo
Wednesday	0000	0030	DXers Unlimited	Cuba	R Havana		9815.0	6010.0									We after 1&3 Tu/mo
Wednesday	0030 0100	0030 0100	Mediascan DX Programme	Sweden Uzbekistan	R Sweden R Tashkent		9850.0 11975.0	6065.0 9755.0	9740.0	7335.0	7325.0	5955.0					Mo after 4th Su/mo
Wednesday Wednesday	0100	0130	Wavequide	Uzuerkistani	BBC World Service		7325.0	5965.0	648.0	198.0	1323.0	3330.0					THO BILLY THE CONTROL
Wednesday	0000	0130	Waveguide	United Kingdom United Kingdom United Kingdom	BBC World Service		15260.0	11750.0	9915.0	9915.0	5975.0						
Wednesday	0100	0130	Waveguide	United Kingdom	BBC World Service		17790.0										
Wednesday	0100	0130	Wavequide	United Kingdom	BBC World Service		9580.0										
Wednesday	0100	0130	Waveguide Mediascan	United Kingdom	BBC World Service R Sweden		15360.0 11695.0	9695.0									We after 1&3 Tu/mo
Wednesday Wednesday	0130 0200	0140 0230	DXers Unlimited	Sweden Cuba	R Havana		9510.0	6010.0									THE BILLY TOURS
Wednesday	0230	0240	Mediascan	Sweden	R Sweden		9850.0	6195.0									We after 1&3 Tu/mo
[®] Wednesday	0200	0245	For Radio Amateurs	Romania	R Romania Int'l		11940.0	11830.0	9570.0	9510.0	6155.0						
Wednesday	0000	0300	World of Radio	Costa Rica	R for Peace Int'l		21464.9		9375.1	7374.8							
Wednesday	0000	0330	Mailbag	Costa Rica	R for Peace Int'l		21464.9	15029.8 6195.0	9375.1	7374.8							We after 1&3 Tu/mo
Wednesday Wednesday	0330	0340	Mediascan DX News	Sweden	R Sweden R Budapest		15220.0		9835.0	5970.0							THE BILL TOLD FORTING
Wednesday	0300	0415	Wavequide	Hungary United Kingdom	BBC World Service		15310.0	15310.0	1413.0	337 0.0							
Wednesday	0330	0415	Waveguide	United Kingdom United Kingdom	BBC World Service		15310.0	15310.0	1413.0								
Wednesday	0400	0415	Waveguide	United Kingdom	BBC World Service			11955.0		1323.0							
Wednesday	0300	0415	Wavequide	United Kingdom United Kingdom	BBC World Service		11760.0	1323.0	720.0	639.0	0400	100.0					
Wednesday	0400 0400	0415 0415	Wavequide Wavequide	United Kingdom	BBC World Service BBC World Service		12095.0 12095.0	6195.0 6195.0	6180.0 6180.0	1296.0 1296.0	648.0 648.0	198.0 198.0					
Wednesday Wednesday	0330	0415	Waveguide	United Kingdom United Kingdom	BBC World Service		9915.0	5975.0	0100.0	1230.0	040.0	150.0					
Wednesday	0330	0415	Waveguide	United Kingdom	BBC World Service		9915.0	5975.0									
Wednesday	0330	0415	Waveguide	United Kingdom	BBC World Service		21715.0										
Wednesday	0330	0415	Waveguide	United Kingdom	BBC World Service		21715.0										
Wednesday	0400	0415	Wavequide	United Kingdom	BBC World Service		6195.0 3955.0										
Wednesday Wednesday	0300	0415 0415	Wavequide Wavequide	United Kingdom United Kingdom	BBC World Service BBC World Service		3500.0 15280.0										
Wednesday	0330	0415	Wavequide	United Kingdom	BBC World Service		15280.0 15280.0										
Wednesday	0500	0530	DXers Unlimited	Cuba	R Havana		9510.0										
Wednesday	0700	0800	Ham Radio Today	Ecuador	HCJB		21455.0	11835.0	6205.0								
Wednesday	0715	0800	Ham Radio Today	Ecuador	HCJB		21455.0	11925.0	9745.0	70740							
Wednesday	0000 0715	0900 1030	World of Radio Ham Radio Today	Costa Rica Ecuador	R for Peace Int'l HCJB		21464.9 21455.0		9375.1 9745.0	7374.8							
Wednesday Wednesday	0000	1130	Mailbag	Costa Rica	R for Peace Int'l		21464.9		9375.1	7374.8							
***********	UUUU	1100	remaily	O U JIG I I I I I I	11 101 1 0000 11111		F1.10113	.000.0.0	001011	. 07 1.0							

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DAY	Хиден	SHOW	PROGRAM	COUNTRY	STATION		Fq.	FQ.	Fq.	FQ.	Fq.	FQ.	FQ.	Fq.	FQ.	Fq.	PGM NOTES
	START	START					1	2	3	4	٥	ō	7	ô	3	10	
Wednesday	1300	1320	DX Report	Philippines	FEBC		11995.0										
Wednesday	1630	1700	Ham Radio Today	Ecuador	HCJB			17790.0	15270.0								
Wednesday	1800	1815	Calling All Listener	Czech	R Prague		9420.0	7345.0	5930.0								
Wednesday	1800	1815	DXer's Special	Argentina	RAE		15345.0		0000.0								
Wednesday	1900	1930	Ham Radio Today	Ecuador	HCJB			17790.0	17490.0	15270.0							
Wednesday	0000	2100	Ham Radio Today	Ecuador	HCJB		21455.0	11.100.0	11 100.0	.00.							
Wednesday	2100	2115	Calling All Listener	Czech	R Prague		9420.0	7345.0	5930.0								
Wednesday	2200	2215	Calling All Listener	Czech	R Prague		9420.0	7345.0	5930.0								
Wednesday	2200	2250	DX World	Hungary	R Budapest		11910.0	9835.0	7220.0	6110.0							
Thursday	0030	0100	Ham Radio Today	Ecuador	HCJB		21455.0	17490.0									
Thursday	0100	0130	Wavequide	United Kingdom	BBC World Service		11955.0	9580.0	10100.0	31 10.0							
Thursday	0100	0130	Waveguide	United Kingdom	BBC World Service		11955.0										
Thursday	0100	0130	Wavequide	United Kingdom	BBC World Service		9580.0	5965.0									
Thursday	0100	0130	Waveguide	United Kingdom	BBC World Service		9580.0	5965.0									
Thursday	0100	0130	Waveguide	United Kingdom	BBC World Service		7325.0	5965.0	648.0	198.0							
Thursday	0000	0130	Waveguide	United Kingdom	BBC World Service		9590.0	6175.0	0.10.0	150.0							
Thursday	0000	0130	Waveguide	United Kingdom	BBC World Service			11750.0	9915.0	9915.0	5975.0						
Thursday	0100	0130	Wavequide	United Kingdom	BBC World Service		17790.0	11100.0	3310.0	3310.0	0.070.0						
Thursday	0100	0130	Wavequide	United Kingdom	BBC World Service		9580.0										
Thursday	0100	0130	Wavequide	United Kingdom	BBC World Service		15360.0										
Thursday	0130	0150	Media Network	Netherlands	R Netherlands		11655.0	9860.0	9845.0								
Thursday	0200	0215	DXer's Special	Argentina	RAE		11710.0	5555.0	00 10.0								
Thursday	0300	0315	Calling All Listener	Czech	R Prague		7345.0	59300									
Thursday	0030	0330	Ham Radio Today	Ecuador	HCJB		21455.0	17490.0	15155.0	9745.0							
Thursday	0300	0350	DX World	Hungary	R Budapest			11910.0	9835.0								
Thursday	0500	0530	Ham Radio Today	Ecuador	HCJB		21455.0		555515	001010							
Thursday	0730	0750	Media Network	Netherlands	R Netherlands		11895.0	9720.0									
Thursday	0659	0830	Mailbag	New Zealand	R New Zealand Int'l		9700.0	0.000									biweekly
Thursday	0930	0950	Media Network	Netherlands	R Netherlands		9865.0	9810.0	9720.0	7260.0							,
Thursday	1130	1150	Media Network	Netherlands	R Netherlands		9650.0	5955.0	0.20.0								
Thursday	1330	1350	Media Network	Netherlands	R Netherlands			13700.0	9895.0								
Thursday	1530	1550	Media Network	Netherlands	R Netherlands			13700.0	9895.0								
Thursday	1730	1750	Media Network	Netherlands	R Netherlands			21515.0	9605.0	6020.0							
Thursday	1930	1950	Media Network	Netherlands	R Netherlands		21590.0										
Friday	0000	0015	Calling All Listener	Czech	R Prague		7345.0	5930.0									
Friday	0030	0050	Media Network	Netherlands	R Netherlands		11655.0	9840.0	6165.0	6020.0							
Friday	0030	0050	Media Network	Netherlands	R Netherlands		9860.0	7305.0	0.00.0	0020.0							
Friday	0230	0250	Media Network	Netherlands	R Netherlands		11655.0	9860.0	9845.0								
Friday	0330	0350	Media Network	Netherlands	R Netherlands		9590.0	6165.0	00 10.0								
Friday	0600	0815	Hello There	Italy	Italian Radio Relay Se	rv	7125.0	0100.0									mailbag show
Friday	1530	1545	DX Show	Portugal	R Portugal		21515.0										tri-weekly
Friday	1515	1630	DX Program for	Bulgaria	R Bulgaria		12085.0										,
Friday	1830	1915	DX Program for	Bulgaria	R Bulgaria		9700.0	7455.0									
Friday	1650	1930	Mailbag	New Zealand	R New Zealand Int'l		9655.0	7 700.0									biweekly
Friday	0000	2000	World of Radio	Costa Rica	R for Peace Int'l		21464.9	15029.8	9375.1	7374.8							
	5555	2000			# TT TOT T DEGOT THE T		#		30101								

SHOW

START

2015

2015

0350

0400

0430

0545

0600

0615

0700

0730

0735

0739

DX Show

COUNTRY

Portugal

Portugal

Hungary

Bulgaria

Portugal

Hungary

Bulgaria

USA

Italy USA

Belgium

Ecuador

Ecuador

Switzerland

Switzerland

Costa Rica

Costa Rica

Switzerland

Uzbekistan

Philippines

Belgium

Ecuador

USA

Italy

USA

USA

Guam

Czech

Belgium

Ecuador

Costa Rica

Spain

Italy

Belgium

Philippines

Switzerland

Switzerland

Costa Rica

Bulgaria

Costa Rica

Costa Rica

Switzerland

USA

USA

Costa Rica

R Portugal

WWCR

R Budanest

R Bulgaria

R Portugal

R Budapest

R Bulgaria

Swiss R Int'l

Swiss R Int'l

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R Bulgaria

WHRI

WWCR

HCJB

HCJB

FFBC

HCJB

VDA

FEBC

V₀A

VOA

KSDA

R for Peace Int'l

R for Peace Int'l

R Vlaanderen Int'i

R Vlaanderen Int'l

R for Peace Int'l

R for Peace Int'l

R Vlaanderen Int'l

Italian Radio Relay Serv

Italian Radio Relay Serv

Spanish National Radio

Swiss R Int'l

R Tashkent

Swiss R Int'l

Swiss R Int'l

R Prague

HCJB

R for Peace Int'l

R Vlaanderen Int'l

R for Peace Int'l

Italian Radio Relay Serv

WHRI

R for Peace Int'l

PROGRAM

DX Show

DX Show

DX News World of Radio

Mailbao DX Program for... World of Radio SW Merry-Go-Round Hello There World of Radio Radio World DX Party Line

0739 DX Party Line SW Merry-Go-Round 0915 0940 DX Dial Radio World 1005 DX Party Line SW Merry-Go-Round

0715 1009 1100 1115 0000 1200 World of Radio 1200 1210 Communications World 1215 DX Program for... 1130 0000 1230 Mailbao 1300 1315 SW Merry-Go-Round

Radio World

DX Spot

Mailbao

DX Party Line

1330 1330 Saturday DX Programme 0600 1330 Saturday Hello There 1400 Saturday 1405 Radio World 1440 Saturday 1300 DX Dial 1500 1515 SW Merry-Go-Round Saturday Saturday 1600 Communications World 1610 Saturday 1600 1610 Communications World Saturday 1600 1615 DX Asiawayes Saturday 0600 1700 Hello There Saturday 1700 1715 SW Merry-Go-Round Saturday 0000 1800 World of Radio Saturday 1800 1815 Calling All Listener

1905

1909

1910

1930

DX PROGRAMS BY SUNDSTROM STATION FQ. Fq. Fq. 1 2 3 R Portugal

9780.0 15515.0 11975.0 21464.9 15029.8 15685.0 11910.0 9700.0

9495.0

21464.9 15029.8

9495.0 7315.0

15430.0 13635.0

21455.0 11835.0

21455.0 11925.0

21820.0 13685.0

21815.0 17515.0

21455.0 11925.0

15505.0 13635.0

21464.9 15029.8

13645.0 11645.0

21464.9 15029.8

17745.0 15220.0

21810.0 17590.0

15505.0 13635.0

19379.0 15205.0

15395.0 15205.0

17635.0 13635.0

21464.9 15029.8

7345.0

5910.0

21455.0 17790.0 17490.0 15270.0

21464.9 15029.8 9375.1 7374.8

7125.0

11995.0

7455.0

7125.0

9420.0

13685.0

11775.0

9700.0

5910.0

11840.0

11720.0

7125.0

7435.0

9925.0

11690.0

9375.1 9835.0 7220.0 7455.0 7315.0 9705.0 9600.0 15220.0 11910.0 21464.9 15029.8

9570.0 9835.0 5970.0 9375.1 7374.8 9375.1 7374.8

FQ.

7374.8

6110.0

9860.0 6205.0 9745.0

9455.0

9700.0

9760.0

9885.0

9375.1

5930.0

9885.0 9905.0 9745.0 9885.0 9375.1 15425.0 15160.0 11715.0

7374.8 9760.0 6110.0 7374.8 9375.1 15505.0 13635.0 11690.0 7480.0 5945.0 9540.0

7374.8

1548.0 9700.0 9645.0

1143.0

7125.0 6110.0

FQ.

Fa.

8

FQ.

9

FQ.

6

FQ.

9555.0

mailbag show

FQ.

10

PGM NOTES

tri-weekly

tri-weekly

only 7315

tri-weekly

2nd Sat of month

mailbag show

mailbag show

20 O 00

 ω

DAY

Friday

Friday

Saturday

XMSN

START

2000

2000

0300

0000

0000

0500

0000

0600

0600

0000

0730

0700

0715

0900

0930

1000

1900

1900

1900

0000

						D.	A PHUL	iKAMS	BA 2	PUNDSI	ROM						
	DAY	XMSN START	SHOW START	PROGRAM	COUNTRY	STATION	Fq.	Fq.	Fq.	FQ.	FQ.	Fq.	Fq. 7	Fq.	Fq. 9	Fq. 10	PGM NOTES
	Saturday Saturday Saturday	1900 2000 0000	1945 2015 2039	DX Mailbag SW Merry-Go-Round DX Party Line	Romania Switzerland Ecuador	R Romania Int'l Swiss R Int'l HCJB	11940.0 15505.0 21455.0	9690.0 13635.0	6105.0 12035.0	5955.0 9885.0							
	Saturday Saturday	2100 2100	2110 2110	Communications World DX Spot	USA Spain	VOA Spanish National Radio	21485.0 6125.0	17895.0	17800 0	15580.0	15445.0	15410.0	13710.0	7415.0	1530.0	621.0	
	Saturday Saturday Saturday	2100 2100 2200	2120 2130 2205	DX Radio Tips DXers Unlimited Radio World	Turkey Cuba Belgium	V of Turkey R Havana R Vlaanderen Int'l	9445.0 15165.0 5910.0										Biweekly
	Saturday Saturday	2200 2200	2215 2250	Calling All Listener DX World	Czech Hungary	R Prague R Budapest	9420.0 11910.0	7345.0 9835.0	5930.0 7220.0	6110.0							
	Saturday Saturday Sunday	2300 2300 0000	2315 2320 0010	DX Asiawaves DX Radio Tips Feedback	Guam Turkey Australia	KSDA V of Turkey R Australia	17645.0 11895.0 17750.0		7185.0 15365.0	15320.0	13605.0						Biweekly
	Sunday Sunday Sunday	0000 0030 0030	0015 0035 0039	DX Spot Radio World DX Party Line	Spain Belgium Ecuador	Spanish National Radio R Vlaanderen Int'l HCJB	9540.0 9930.0 21455.0	5900.0 17490.0	15155 N	9745.0							
Рa	Sunday Sunday	0100 0100	0110 0110	Communications World DX Soot	USA Spain	VOA Spanish National Radio	15205.0 9540.0	15120.0	11580.0	9775.0	9455.0	7405.0	6130.0	5995.0	1580.0	1530.0	
0	Sunday Sunday Sunday	0100 0100 0000	0113 0115 0130	DXers World Meeting SW Merry-Go-Round DXers Unlimited	Germany Switzerland Cuba	R Deutsche Welle Swiss R Int'l R Havana	9700.0 9885.0 9815.0	9670.0 6135.0 6010.0	9565.0 5905.0	6145.0	6120.0	6085.0	6040.0				Su after last Sa/mo
59	Sunday Sunday	0000	0130 0200	World of Radio World of Radio	USA Costa Rica	WHRI R for Peace Int'l	9495.0 21464.9	7315.0 15029.8	9375.1	7374.8							only on 7315
	Sunday Sunday Sunday	0200 0200 0200	0210 0215 0240	Feedback DX Asiawaves Radio Corner	Australia Guam Taiwan	R Australia KSDA V of Free China	21595.0 13720.0 9680.0	21525.0 5950.0	17880 0	17750.0	17715.0	11880.0	11720 0				last Culmonth
	Sunday Sunday	0200	0245	DX Mailbag Spectrum	Romania USA	R Romania Int'i WWCR	11940 0 5810.0	11830.0	9570.0	9510.0	6155 0						last Su/month
	Sunday Sunday Sunday	0030 0300 0200	0309 0313 0330	DX Party Line DXers World Meeting DXers Unlimited	Ecuador Germany Cuba	HCJB R Deutsche Welle R Havana	21455.0 9640.0 9510.0	17490.0 9545.0 6010.0	15155.0 9535.0	9745.0 6120.0	6085.0	6045.0					Su after last Sa/mo
	Sunday Sunday	0000	0330 0340	Mailbag Radio Corner	Costa Rica Taiwan	R for Peace Int'l V of Free China	21464.9 9680.0	15029.8 5950.0	9375.1	7374.8							last Su/month
	Sunday Sunday Sunday	0330 0300 0400	0345 0350 0410	Calling All Listener DX World Feedback	Czech Hungary Australia	R Prague R Budapest R Australia	9440.0 15220.0 21595.0		5930.0 9835.0	5970.0	11880.0	11720 0					
	Sunday Sunday	0400 0000	0415 0415	SW Merry-Go-Round World of Radio	Switzerland USA	Swiss R Int'l WWCR	9885.0 7435.0	9860.0	6135.0	17713.0	11000.0	11720.0					
	Sunday Sunday Sunday	0400 0500 0500	0420 0509 0510	DX Radio Tips DX Party Line DX Spot	Turkey Ecuador Spain	V of Turkey HCJB Spanish National Radio	9445.0 21455.0 9540.0	11925.0									Biweekly
	Sunday Sunday	0500 0500	0513 0530	DXers World Meeting Media Roundup	Germany Japan	R Deutsche Welle R Japan	6185.0	6120.0 15410.0	6045.0 11740.0	5960.0							Su after last Sa/mo
	Sunday Sunday	0500 0500	0530 0530	Media Roundup Media Roundup	Japan Japan	R Japan R Japan	11885.0 7230.0	9610.0 6085.0	6025.0								

KC 77

						n v	PKU	ikams	BA S	SUNDST	rom						
	DAY	XMSN Start	SHOW		COUNTRY	STATION	FQ.	FQ. 2	FQ.	FQ.	Fo. 5	FQ.	FQ. 7	FQ. 8	Fa. 9	FQ. 10	PGM NOTES
	Sunday	0600	0610	Feedback	Australia	R Australia	21595.0	21525.0	17880.0	17715.0	17670.0	11880.0	11720.0	_	•		
	Sunday Sunday	0500 0600	0630 0700	DXers Unlimited Hello There	Cuba	R Havana	9510.0										
	Sunday	0000	0700	World of Radio	Italy USA	Italian Radio Relay Serv WWCR	7125.0 5810.0										mailbag show
	Sunday	0700	0740	Radio Corner	Taiwan	V of Free China	5950.0										tast Su/month
	Sunday	0800	0805	SW Feedback	South Korea	R Korea	13670.0	7550.0									
	Sunday Sunday	0800 0800	0810 0835	Feedback SW Feedback	Australia South Korea	R Australia R Korea	21595.0 15575.0	21525.0	17750.0	17695.0	11720.0	7240.0					
	Sunday	0600	0915	Hello There	Italy	Italian Radio Relay Serv	7125.0										mailbag lexc last Su
	Sunday	0930	0940	DX Report	Philippines	FEBC	11690.0										manuay rozo last ou
	Sunday Sunday	0000	1000 1130	World of Radio	Costa Rica	R for Peace Int'l		15029.8	9375.1	7374.8							
	Sunday	1130	1133	Mailbag SW Feedback	Costa Rica South Korea	R for Peace Int'l R Korea	21464.9 9650.0	15029.8	9375 1	7374.8							
	Sunday	1200	1200	DX Programme	Uzbekistan	R Tashkent	17745.0	15220.0	9540.0	5945.0							Su after 2nd Sat/mo
	Sunday	1200	1230	SW Feedback	South Korea	R Korea	7180.0		00 10.0	00 10.0							Ou and the outino
	Sunday Sunday	1300 1400	1305 1420	SW Feedback DX Corner	South Korea Israel	R Korea Kol Israei	13670.0	9570.0									
_	Sunday	1400	1420	DX Corner	Israel	Kol Israel	15640.0 15650.0										
Pа	Sunday	1400	1430	Media Roundup	Japan	R Japan	11915.0	9750.0	9535.0								
70	Sunday Sunday	1400 1400	1430 1435	Media Roundup SW Feedback	Japan Couth Koroo	R Japan	11705.0	9535.0									
P	Sunday	1300	1445	DX Report	South Korea Philippines	R Korea FEBC	6135.0 11995.0	5975.0									
_	Sunday	0600	1530	Hello There	Italy	Italian Radio Relay Serv	7125.0										mailbag show
60	Sunday	1600	1615	DX Asiawaves	Guarn	KSDA	7455.0										
	Sunday Sunday	1600 1700	1635 1730	SW Feedback Media Roundup	South Korea Japan	R Korea R Japan	5975.0 11915.0	97500									
	Sunday	1700	1730	Media Roundup	Japan	R Japan	9535.0	9/300									
	Sunday	1700	1730	Media Roundup	Japan	R Japan	17870.0										
	Sunday Sunday	1800 0600	1815 2000	DX Asiawaves Hello There	Guam	KSDA	13720.0										
	Sunday	2000	2020	DX Corner	italy Israel	Italian Radio Relay Serv Kol Israel	7125.0 11603.0	11587 0	9435.0	7465.0							mailbag show
	Sunday	2000	2020	DX Corner	Israel	Kol Israel	11675.0	11307.0	3-100.0	7-100.0							
	Sunday	2000	2020	DX Corner	Israel	Kol Israel	17575.0										
	Sunday Sunday	2100 2100	2110 2130	Communications World Media Roundup	USA Japan	VOA R Japan	17735.0 11915.0	15185.0 9660.0		coor o							
	Sunday	2100	2130	Media Roundup	Japan	R Japan	9640.0	3000.0	6185.0	6035.0							
	Sunday	2100	2130	Media Roundup	Japan	R Japan	11925.0										
	Sunday Sunday	2100 2145	2145	DX Program for	Bulgaria	R Bulgaria	9700.0	6085.0									
	Sunday	2200	2220 2240	SW Feedback Radio Corner	South Korea Taiwan	R Korea V of Free China	15575.0 11915.0	6480.0 9850.0									lest Culmooth
	Sunday	0000	2300	World of Radio	Costa Rica	R for Peace Int'l	21464.9		9375.1	7374.8							last Su/month
									001011								

Page

the



page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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



THE BRITISH BROADCASTING CORPORATION

thanks you for reporting on reception of the

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9-countries 6050 9510 9580 11750 11860 15160 17790 21670 15260	49 59 31 35 31 32 25 53 25 29 19 82 19 80 13 97 19 90 13 97 49 10	GSA GSB GSC GSC GSC GSC GSC	A top Arrah A top Arrah I are Respectating C for Corporation D for Davestit tion Empire I top Septime G for Greating Hot mome I top hased I op hite I op h
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The working schedule is changed from time to time according to conditions of short wave propagation. A copy of the current schedule is obtainable on application. The detailed programmes broadcast from the Empire

The detailed programmes broadcast iron and the station are published each week in an Empire Programme Pamphiet which can be obtained free of charge on payment of an annual subscription of five Shillings (or the ment of an annual subscription of order to cover the equivalent in local currency) in order to cover the equivalent in local currency in order to cover.

cost of postage and despatch, etc.
British Broadcasting Corporation, Broadcasting House,
London, W 1



The British Broadcasting Corporation acknowledges with many thanks receipt of your report on your receptions of the transmissions from the Empire Broadcasting Station.

BROADCASTING HOUSE, LONDON



The British Broadcasting Corporation thanks you for your report on the

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s being operated principally to sever the British Empire, but the B.B.C.

we comes reception reports from cuteners in any part of the world



The Bertah Benedicating Corporation thanks you for your report on the transmissions from the Empire Broadcasting Scatton, but regress that no specific verifications of reception of any transmissions can be given

BROADCASTING HOUSE LONDON

As these cards from the 1930's show, the traditional BBC policy of issuing acknowledgments but not real verifications—a policy seldom departed from until more recent years—goes back to the days when the BBC overseas service was known as the Empire Broadcasting Station. It began transmitting five daily two-hour transmissions in December 1932. In those days, much of the output was drawn from the BBC commestic services.

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