

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXIII, Number 1

January, 1993



Quality Monitoring Equipment from Universal Radio

JRC

Japan Radio Co., Ltd.

NRD-535D



With the introduction of the NRD-535D, Japan Radio Company once again "re-writes" the standard by which other advanced receivers are measured. The NRD-535D has all the features shortwave listeners have been waiting for. General coverage reception from 90 to 30000 kHz in AM, USB, LSB, CW, RTTY, FAX and narrow FM modes. A new triple conversion superheterodyne circuit is employed to provide superb sensitivity and image rejection. Japan Radio has designed a special high-speed 1 Hz step PLL synthesizer to provide you with 1 Hz tuning resolution never before available (display resolution is 10 Hz). A sophisticated 200 channel non-volatile scanning memory stores frequency, mode, AGC, ATT and IF filter selection. Channels can be scanned at a user-defined rate (5 to 5 seconds/channel). Sweep reception can be adjusted from .05 to .5 seconds/step. NRD-535D's reputation for extreme stability continues with only ± 2 PPM drift (after 1 hour) making the NRD-535D the inevitable choice for the demanding non-voice modes such as Morse code, RTTY and FAX. Four independent filter positions are available. The **WIDE** position features a 6 kHz (\ominus -6dB) filter. The **INTER**mediate position features a 2 kHz (\ominus -6dB) filter. The **NARROW** position features the CFL-233 1 kHz filter. The **AUXiliary** position is not filled, a +12 kHz bandwidth results. The **AUXiliary** positions can be used to mount the CFL-218A/231/232 or 251. Any filter may be used in any mode (except FM). This is an exceptional feature that offers maximum flexibility to the listener.

The ergonomic keypad features both MHz and kHz input. The dual-width noise blanker can be used to reduce or eliminate impulse noise. Other front panel controls include: SQUELCH, AF and RF GAIN and TONE. An AGC button permits the selection of AGC FAST, SLOW or OFF. The DIMMER button offers four brightness levels. A built-in 24 hour clock timer is provided. The TIMER permits unattended listening/recording. The receiver can be programmed to be turned on at a particular time (on a set frequency, mode, bandwidth, etc.) and then turn off at a programmed time. A timer-out terminal connection is provided on the back of the set to activate a tape recorder. The 535 contains a built-in RS-232 computer interface.

The NRD-535D offers **Pass Band Shift (PBS)**. This effective control varies the apparent intermediate frequency for the IF filter by ± 1 kHz without changing the receiving frequency. This function provides a powerful means of eliminating or reducing troublesome adjacent channel interference. Because of the overcrowded nature of today's HF spectrum, annoying heterodynes can be found with increasing regularity. The **Notch Control** permits the listener to go into the signal and sharply "slice-out" the offending tone with very little loss in fidelity to the desired station. Notch attenuation is -40 dB or more.

The NRD-535D now includes the **new improved CFL-243 Bandwidth Control Option**. You can adjust this control to narrow the 2 kHz filter or the 6 kHz filter in 10 Hz steps without varying its center frequency, ensuring effective interference rejection. This control functions in the SSB/CW and AM modes. It is a powerful tool to extract a desired signal from the crowded passband.

Perhaps the most exciting feature in the NRD-535D is the **CMF-78 Exalted Carrier Selectable Sideband (ECSS)** circuit. Often when receiving an AM signal you will encounter interference from an adjacent station. The interference will manifest itself on either the upper or lower sideband of the signal you are trying to hear. The ECSS feature will select the sideband that is not affected and deliver the signal to you with high tonal quality. The Japan Radio NRD-535D is designed to meet the exact needs of the most demanding broadcast or utility DXer.

SPECIFICATIONS

Dimensions	13" x 5.2" x 11.25"
Weight	20 Lbs. (24 Lbs. ship)
Frequency Range	90 - 30000 kHz
Power	100/120/220/240 VAC
	50/60 Hz 35VA max.
	12 VDC 25W max.
Antenna Impedance	50 or 600 ohm
Selectivity (-6dB)	AUX (12 kHz)
	WIDE >6 kHz
	INTER >2 kHz
	NARR >1 kHz
	[FM] >12 kHz
Sensitivity	5 μ V 1.6-30 MHz
	SSB/CW S+N/N=10dB
Image Rejection	>70 dB (1.6-30 MHz)
Dynamic Range	106 dB (Φ 300Hz BW)
IF Rejection	>70 dB (1.6-30 MHz)
Frequency Accuracy	$\pm 10 \times 10^{-6}$ or better.
Frequency Stability	± 10 PPM 5-60 mins.
	± 2 after 1 hour.
Intermediate Freqs.	1st IF = 70.45399 MHz
	2nd IF = 455 kHz
	3rd IF = 97 kHz
BFO Variation Range	455 kHz = ± 2 kHz
	PBS Variation Range ± 1 kHz or more
Notch Attenuation	-40 dB or more
Audio Output	1 W at 4 Ohms
Line-Record Output	± 1 mV at 600 Ohms
Digital Interface	4800 baud (8,N,1)

SUPPLIED OPTIONS

- **Japan Radio CFL-243 Bandwidth Control**
The bandwidth control allows you to continuously reduce the pass bandwidth enough to eliminate disturbing signals. The **BWC now** operates with the **WIDE** or **INTER** filter and functions in either SSB/CW or AM modes.
- **Japan Radio CMF-78 ECSS Unit**
The CMF-78 Exalted Carrier Selectable Sideband circuit will dramatically reduce adjacent channel interference. When receiving an AM (DSB) signal, the ECSS control insures clear reception with little deterioration of tonal quality.
- **Japan Radio CFL-233 1000 Hz Filter**

PRICING

NRD-535D List Price	\$2029.00
NRD-535D Discount Price	
Order #1535	\$1699.00
Shipping/Handling/Insurance	\$18.00

Order#	Price	Optional Item
◆ 0063	\$109.95	CMH-530 RTTY Demodulator
◆ 0852	179.95	NVA-319 Speaker/Audio Filter
◆ 1225	139.95	CFL-218A Filter 1800 Hz -6dB
◆ 0193	139.95	CFL-231 Filter 300 Hz -6dB
◆ 0230	139.95	CFL-232 Filter 500 Hz -6dB
◆ 1225	139.95	CFL-251 Filter 2400 Hz -6dB
◆ 1223	79.95	CGD-135 High Stability Osc.



Universal Radio, Inc.
6830 Americana Pkwy.
Reynoldsburg, Ohio
43068 U.S.A.

► 800 431-3939 Orders
► 614 866-4267 Info.
► 614 866-2339 FAX

► **HUGE 100 Page catalog available on request!**

NASWA Notes

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



Welcome to the first 1993 issue of *The Journal*. We start off the new year with another issue chock full of SW news.

Club Notes

Club participation is at an all time high! In fact, it's so good right now that because of page limitations I have a slight backlog of articles. This doesn't mean that you should stop sending anything in! However, it does mean that if you've sent in an article and it hasn't appeared yet never fear, it will soon. I try to give preference to articles that might be time sensitive, such as this month's article in DXer's Forum by David Clark. Bill Oliver keeps me to a maximum of 64 pages every month and lately I've had to do some juggling to make things fit. I'm not complaining, this is a good problem! I just wanted to let you

know what was going on. From the looks of the loggings and QSL reports it appears that you are keeping Sheryl, Wally, and Sam busy also. One last thing - I think you'll agree with me that we have a fine group of editors making *The Journal* happen every month. How about dropping them a note now and then and let 'em know how much you appreciate what they're doing for NASWA?

ANARC News

Four individuals have been elected to serve two year terms of office for the association. Kirk Baxter (A*C*E), Dave Marshall (AOSC) and Paul Swearingen (NRC) will serve on Executive Council while Richard D' Angelo will serve as the association's Executive Secretary. All terms commence on January 1st. Bob Brown (NASWA), Ruben

Welcome to the following new NASWA members -

- | | |
|---|---|
| Nina Allen, Cambridge, MA | Dennis J. Lytle, Bellingham, WA |
| Guillermo K. Anato, Valencia, VENEZUELA | Paul Mollitt, Mesa, AZ |
| Vincent Anyzeski, East Haven, CT | Marc A. Murison, Reading, MA |
| Gonzalo Lanas Blasco, Barcelona, SPAIN | Neil Olien, Boulder, CO |
| William H. Botten, Key Colony Beach, FL | John Overman MD, Independence, MO |
| Peter Bowen, Toronto, ONT | Peter Pisz, Phoenix, AZ |
| Nigel C. Campbell, Rockmart, GA | Robert Posa, Houston, TX |
| Allen Dingwell, Marysville, MI | Jeff Rice, San Anselmo, CA |
| Paul J. Doherty, Lunenburg, MA | Harold G. Rudnick, South Plainfield, NJ |
| John Dorsey, Quinton, VA | Robert Scheuermann, Beverly Hills, CA |
| Michael G. Faber, Lodi, WI | Ray C. Schmidt, West Chester, PA |
| Courtney L. Flatau, Yucca Valley, CA | Patrick J. Serenson, Hudson, FL |
| Larry Gilbert, Davis, CA | Donald G. Seydel, Carmel, CA |
| Fred Gold, Cinnaminson, NJ | Allison E. Smith Jr., Glenmont, NY |
| John P. Gunter, Franklinton, NC | Mark Sobel, Marstons Mills, MA |
| Ronald Hartland, Glenmoore, PA | Juventino Soto, San Ysidro, CA |
| Thomas A. Henry, Trumbull, CT | Roy P. Spreter, Devon, PA |
| Wayne A. Johnson, Silver Spring, MD | Wayne Stearns, North Vernon, IN |
| Mike Kamp, Irving, TX | Ronald W. Such, Kittery Point, ME |
| Doyle L. King, FPO, AA | William Tillet, Indianapolis, IN |
| Robert F. Kruthers, Fanwood, NJ | Robert Vella, West Nyack, NY |
| Thomas Lane, Moscow, PA | Leon Webster, St. Paul, MN |

Our Motto is - "Unity and Friendship"

Dagold (ADXR), and Bill Oliver (LWCA) are the other three members on Council. Thanks to departing Executive Council member Don Moman (CIDX) for his service to the association.

ANARC clubs are currently voting for 1993 ANARC Awards which will be presented at the Winter SWL Festival in Kulpville, PA on Feb. 20, 1993. Three awards will be given, North American Shortwave DXer of the Year, North American Specialty Band DXer of the Year, and International DXer of the Year.

This will be ANARC's first year as sponsor of the North American DX Championships which this year will be held in March. The announcement and rules for this event appear elsewhere in this issue of *The Journal*.

ANARC SWL Ham Net

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

Winter SWL Festival

Registrations are rolling in for the Fest. I'm seeing a lot of new names as well as the Fest regulars. If you plan on coming please send in your registration as soon as you can. Don't hesitate to ask if you need additional info. Till next month - 73

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), or use next month's theme as a basis for your discussion. Next month's theme is - (Open Forum, You Pick It). The monthly theme is only used as a suggestion for discussion. Any other items of interest to members may be also submitted. Because I edit this column, I'll jump in with responses where appropriate.

Nick Grace, 6161 Edsall Rd., Apt. 1501, Alexandria, VA 22304

Two years ago, having just finished one of many exhausting term papers at the last minute, I popped my radio on to hear (much to my surprise at the time) the "Campesina" programmes of dozens of Andean stations. Where I was accustomed to hearing African drums and French, flutes and harps and Spanish came out. I was so hooked by the music that that weekend during a trip to Boston, I happened to bump into an Ecuadorian group playing on the street and that was the end of me.

Little did I know that one year and many 4 AM alarms later, I myself, would perform with an Andean group on the street with my own flutes. The dozen or so bands who have come to know me as their "huayky" (Quechua for brother) have all been surprised at my ability to receive the stations from their homeland. And I tell them (in broken Spanish) that there are many people who DX the Latins.

With my 30+ tapes, I have been able to learn how to play most of the traditional instruments. Along with 4 amigos, I have started the group Crepuscula (Dusk) and remain as one of the zampona (flute) players and musical director. Our first stage performance is set for the end of January and our dream is to one day play at the SWL Winterfest (hi). Incidentally, one Peruvian friend responded to my question "Do you know Radio Mayabamba? " by saying "My uncle is the gerente of that station !" You never know who you'll run into these days.

To sum things up, I have some 60+ tapes, records and CDs of foreign music from Singaporean rap to Laotian vocals. If anyone is interested in exchanging copies or (in the DC area) playing Andean music, please write.

David W. Carter, 184 East Kellogg Road, Apt. E4, Bellingham, WA 98226

Has anyone else received a "Wings of Hope , Israel" QSL card ? After monitoring Wings of Hope on 11,530 KHz on November 2, 1992, I sent a reception report to the CA address of High Adventure Ministries. Within a few days, I received a QSL card from David E. Laufer in Public Relations. The location of the station on the QSL card was indicated as Israel, not South Lebanon.

Expressing my confusion, I sent another letter. Here is an excerpt from the letter that I promptly received in reply from Mr. Laufer: "Thank you for your question about Wings of Hope, I have been listing it as an Israel station on the QSLs I have sent, because the studio is in Israel, and we always talk about it as 'Wings, Israel '. However, the transmitter is on the Hill of the Doves, South Lebanon. To add to the confusion, Israel considers the Hill of the Doves to be in Israel ! All of this becomes understandable when you look at a map. Metulla, where our Wings of Hope studio is, lies in a tiny finger of Israel which pokes up into Lebanon. The Hill of the Doves is on the Lebanese side of the eastern border of this finger, but inside the five-mile Israeli 'Security Zone '."

Mr. Laufer also explained that he had only been responsible for QSLs for a couple of weeks following the departure of Pat Kowalick from High Adventure and that I should return the incorrect QSL card if I wanted one with the correct transmitter site listed. After returning my "Wings of Hope, Israel" QSL card, I am happy to say that I received a "Wings of Hope, South Lebanon" QSL card (VIC #86) within a few days from Mr. Laufer.

Jodi Rodriguez, 11334 Prest, Detroit, MI 48227

How I Got Started in SWLing

I have always been interested in ethnic music. However, radio stations in Detroit are not very kind to the ethnic communities, so I had to settle with what I could find, which was not much. In 1986 my brother brought home a Magnavox Boom Box. He was proud of it for the fact that he could hook up his keyboards and guitars to it. I would be proud of it because of the shortwave I would soon discover. Being curious as I am I wanted to see what SW1 and SW2 was all about. While he was away I would tune the knobs.

The first station I heard was WYFR playing Spanish music. I was overjoyed to say the least. That same night I fell in love with Radio Havana Cuba, which at the time I could fall asleep to them playing music and wake up to hear cheerful Spanish talk. Does anyone remember that?

I recorded a few tapes, which I still own. I told my brother about my new finding, but all he said was that he was glad that I had found some foreign music. A year later he sold the radio for a keyboard. I was out of a radio until 1990 when my mom bought me a multiband cassette player. Then I discovered the wonderful world of DXing. I have been hooked ever since. Of course, recording music is still the main reason for listening to shortwave.

Mary Jane Cole, Rt 4, Box 309, Jasper, TX 75951

What I heard and what I thought of it

Because I am relatively new to shortwave listening, this is the first time I've had the chance to listen to election coverage on shortwave. It was interesting to hear foreign perspective and analysis about our election process, but what amazed me the most was the coverage on VOA. Instead of government slanted and edited reporting like you might hear on other official stations, VOA broadcast LIVE coverage of both conventions, all the debates (even the vice-presidential debate - talk about warts and all !), and had extensive election night coverage. Much of the coverage was better than on the major networks. Like most citizens, I get very upset with our government at times, but I found the fact that VOA had the freedom to broadcast uncensored our most raucous, and occasionally embarrassing, political processes all around the world, strangely reassuring. Listening to shortwave has helped improve my

knowledge and understanding of the world and this election coverage helped me appreciate, in a very fundamental way, how fortunate we are to enjoy so many freedoms.

Ben Krepp, 106 Harnden Ave., Watertown, MA 02172

The Boston Area DXers held its first DXpedition the weekend of November 15th through 17th. Paul Graveline arranged for the use of a farmhouse in central Vermont for the weekend. When the "sign up sheet" for the DXpedition was passed around at our October meeting, about a dozen people signed up - more than could be accommodated at the Vermont site. Because of this, Mike Tucci generously volunteered the use of his family's home in central New Hampshire as a second site. Both sites offered most of us our first chance to set up Beverage antennas and/or to DX in an electrically quiet setting.

The group going to the Vermont site consisted of Jerry Berg, Paul Graveline, Malcolm Kaufman, Steve McNeil, and me. Those at the New Hampshire site included John Fisher, Andy Wallace, Ross Comeau, Steve Byan, <some other folks>, and Mike Tucci. The rest of this write-up will chronicle the adventures of the Vermont group, leaving the New Hampshire group's story to their rep.

Jerry and I decided to take the day off from our jobs in order to get to the site and set up our antennas before nightfall on Friday. This would give us the chance get in two morning's worth of serious

Calendar Of Events

Jan 15 - Meeting, Boston Area NASWA Chapter, GTE Labs, Waltham, 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).

Jan 15 - Meeting, Philadelphia Area NASWA Chapter. Kulpsville Holiday Inn, Kulpsville, PA. 7:30 PM Contact Dan Cashin (215)446-7831

Jan 16 - 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 Newline at (614) 471-9973 (24 hrs.) Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132

Jan 19 - 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

Feb 7 - The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. Location is the Steak & Ale Restaurant, 5764 Virginia Beach Blvd. (corner of Va. Beach Blvd. and Military Hwy.), Virginia Beach, VA. For info, call Joe Buch, (804) 721-2782.

Feb 18-21 The 6th Annual Winter SWL Festival, Kulpsville Holiday Inn, Kulpsville, PA. Registration form in last month's *Journal* or SASE to Winter SWL Fest, PO Box 591, Colmar, PA 18915.

Mar 5-7 The 1993 North American DX Championships, a shortwave listening contest sponsored by the Association Of North American Radio Clubs (ANARC). Information appears elsewhere in this issue of *The Journal*.

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

DXing, as our return was planned for shortly after reporting into the ANARC SWL net on Sunday morning. Before getting very far, we discovered that we didn't have a compass. Because both of us wanted to set up Beverages and orient them towards our favorite target area(s), we felt the need to make a stop at a shopping mall in the Boston suburbs before continuing our trip.

The drive up to Barnard was about as easy as we could have hoped for. Both of us had worried about waking up to a snow storm on Friday morning, and we were very pleased to find that the day was sunny, and even a bit warmer than normal for mid-November in New England. I packed a pair of serious snow boots, however, just to be on the safe side. Speaking of packing, everyone packed as though they were going on a DXpedition for a week rather than a weekend. Our cars were jammed to the gills with receivers, tape recorders, speakers, antenna wire, coax, etc., etc. The biggest spacehog, however, was food. Paul had warned everyone that we should bring our own food - and boy, did we. Jerry and I each brought along about 3 bags worth of food, snacks, and drinks. Paul's car looked as though, Malcolm, Steve, and he had stopped at every shopping mall in southern New Hampshire and bought out the grocery section. When all this stuff was unloaded, it was clear that we had vastly more food than we'd need for a two day trip. We wound up hauling more than 2/3 of the stuff back home with us.

Jerry and I arrived around 2:30 in the afternoon, and promptly unloaded our equipment. We found that the farm house faced an open field to the north and west. We couldn't have asked for a better layout, as setting up an antenna that would give us a good shot at east-Asia in general - and PNG-land in particular - was a high priority. It didn't take long for each of us to unroll about 700 feet of wire oriented roughly north/north-west.

Friday afternoon got off to a slow start. Although some Africans were making it through on 60 meters, most signals weren't very good. The A-index was in the teens, and we were becoming worried that lousy auroral conditions might turn the DXpedition into a fiasco. Sometime after 2230 UTC, Jerry came across an interesting signal: somebody was playing non-stop east-European or Turkish music on 6219.95 kHz. There was no chance of list-logging this one, as the standard hobby references showed no likely suspects on that frequency. We sat on 6219.95 until the top of the hour waiting for an ID. Shortly after 2300 Jerry hollered "Did they say Bosnia-Herzegovina!?" I had to admit that I missed the ID, and couldn't offer a solid confirmation. Jerry had his tape recorder going, and that saved the day. A little later, we played back the tape several times, and confirmed that someone had either announced "Radio Bosnia-Herzegovina" or something sounding an awful lot like it. This was our first good catch, and A-index worries or no, it helped put us in the right mood for a weekend of DXing.

Although all of us were primarily SWBC-oriented, three of us had hopes to bag other kinds of DX while on the DXpedition. Jerry hoped for a clear shot at St. Pierre and Miquelon on 1375, Malcolm hoped to do some MW and FM listening and DXing on the trip, and I hoped to bag some goodies from the Caribbean on MW. Jerry was able to dig out a fair-to-middlin' het on 1375, but not much in the way of audio. Malcolm reported that the surrounding mountains blocked out most stuff on the FM band. I got lucky, though. A casual scan of the MW band yielded three Caribbean stations on split frequencies.

We ran out of DX steam about midnight, and decided to call it a day shortly thereafter. Things hadn't gotten off to a bad start on the first afternoon. Our big expectations, though, were focused on the DX window around sunrise. We went to bed with a lot of hopes riding on those 700 foot wires pointed in the general direction of downtown Port Moresby.

"Morning" came at 4:00 a.m. Jerry was already up and about and at the dials at this time - which I now understand is his *regular* wake-up time. Things didn't seem too bad right off the bat. VLQ4 was making an appearance on 4920, as were the Solomons on 5020. Jerry found a het on 2325, and I decided to sit on the frequency in the hopes of bagging my first 120 meter Aussie. Around 0915 UTC, I started to get lucky. The signal faded up and was quite readable for more than 45 minutes. (One in the bag, two to go!) Meanwhile, Jerry was checking 2310 and 2485, and found some audio on the former and a het on the latter.

It was fast approaching sunrise, and time to start hunting for PNGs. Both of us had programmed most (if not all) of the PNG frequencies into our receiver's memories, so scanning for them was a snap. Sad to say, though, that on the first morning of the DXpedition, the much vaunted Dawn Enhancement was 99% dawn and only 1% enhancement. The best we were able to come up with was a het and snatches of watery audio on 3905, Radio New Ireland's frequency. Things got better later that morning, however, when Radio Penom Penh's signals on 11937.8 kHz and FEBC Radio International's on 11995 kHz were found to be really quite good.

The rest of Saturday morning, and early Saturday afternoon were spent pursuing non-radio related diversions. Some of us visited the nearby town of Woodstock, Vermont and checked out the sights. I wandered into the center of Barnard, less than a mile from our "DX shack", and found that - lo and behold - the local Post Office had IRCs in stock! Barnard was clearly a DXer's kind of town.

We were back at our receivers by mid-afternoon, but were initially disappointed. The Africans on 60 meters were coming in much more weakly than they had the day before, and we feared for the worst. After a scan of 60 meters yielded nothing of interest, I said, "What the heck? I can't get shot for trying", and punched up 3316 kHz on my NRD-525. I nearly jumped out of my chair! The Sierra Leone Broadcasting Service was putting a hefty, easily readable signal. This catch alone made the expedition worthwhile. The SLBS is very hard to hear at my QTH, due to a lot of man-made QRN.

We petered out pretty quickly Saturday evening. Jerry and I monitored La Voz de Mosquitia, HRKX, for quite a while, hoping for a good shot at the English-language segment between 0200 and 0230. Alas rather than improving, conditions were deteriorating as the night wore on. Although Steve stayed up quite late in the hopes of adding to his total number of DX shows heard in one weekend, most of us called it a night early.

Sunday morning - our last morning - began at 4:00, "as usual". Things didn't get off to a particularly good start. The Aussies that were showing up as hets at 0900 the morning before weren't showing up at all. We stuck with it, though, and were richly rewarded. By 0930 UTC, 2310 kHz and 2325 kHz were showing signs of life. Shortly thereafter, the signal on 2310 started to grow stronger and stronger and stronger ... By 1000 there was no longer any need to use headphones, and by 1030 the signal was so strong that you could walk across the room and still hear the music or dialogue perfectly clearly. Jerry and I exchanged more than one look of utter amazement. For me, this was a real treat. Although I hoped to bag at least one 120 meter Aussie on the DXpedition, I never dared really believe I would. Not only had I bagged two such stations, but I'd heard one of them at arm-chair levels. Fabulous.

While I was gallivanting around the Northern Territory, Jerry made two juicy - though tentative - logs: the AIR 90 meter station in Kurseong and Far East Christian Radio from Asiatic Russia. I took a break from the 120 meter Aussies between 1115 and 1145 to bag two Guatemalans. (I guess I'm just a sucker for good Marimba music in the morning.)

Things wound down pretty quickly after 1230 UTC. We started to gather and pack our belongings, and agreed to depart for Boston after checking into the ANARC SWL net at 1500. After we'd reported our logs to the gateway and heard them announced over the air, we got a frantic call from our colleagues in New Hampshire - nobody there had taken down the phone number of the gateway station, and they wanted it from us. After helping our out our friends in need, we shortly learned that they heard all the stuff we did, and "MUCH, MUCH MORE!" (Hi).

At our next regular meeting in Waltham, all of us agreed that the DXpedition had been a lot of fun, and had yielded good DX for all of us - whether novice or veteran DXer. On top of that, I'm sure I speak for most - if not all - of us when I say that you just CAN'T HELP learning things when you DX with others. All in all, it was a great experience, and leaves me eager to go on more DXpeditions in the future. 73, Ben Krepp

THE 1993 NORTH AMERICAN DX CHAMPIONSHIPS (NADXC)
A Shortwave Listening Contest Sponsored by
The Association of North American Radio Clubs (ANARC)

PURPOSE

This contest is designed to promote the shortwave listening hobby and to provide those SWL's and DXer's interested in competing an opportunity to participate in a carefully run, challenging contest.

ELIGIBILITY

The 1993 DX Championship is open to all DXer's residing in North America [as defined by the country list of the North American Shortwave Association (NASWA)]. Members of the NADXC Administrative Committee are excluded from participation.

LISTENING PERIOD, FREQUENCIES, AND TIMES

The contest listening period will begin on Friday, 5 March 1993, at 1900 EST (0000 UTC) and end Sunday, 7 March 1993, at 2359 EST (0459 UTC). This contest coincides with the beginning of Shortwave Radio Week (which runs from 7-14 March).

PRIZES

Plaques will be awarded by ANARC to the top three finishers. The top finalist will receive a pair of JRC headphones courtesy of Paul Lannuier at Japan Radio Corporation. All entrants will receive a participation certificate indicating that they competed in the 1993 North American DX Championships. The certificates for the top 20 will have their place of finish in the NADXC indicated on the certificate.

SCORING

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

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

Each contestant is required to total his own entry and provide a summary of the number of countries and stations claimed to support the point totals. The receiver(s) used in the contest must also be indicated. Logs will be judged on accuracy, completeness and neatness. If the judges cannot read a log, it will not be counted for scoring purposes. The decision of the judges is final.

SPECIAL HOLLOW STATE CATEGORY

A special category is available for DXer's using vacuum tube equipment. Contest rules remain the same except all contest loggings must be made on hollow state equipment. The NADXC participation certificate will be appropriately annotated and a special plaque will be awarded to the top finisher in this category.

FEES

An administrative fee of \$4.00 plus a business size SASE must be provided for each contest entry. All entries must be postmarked by Friday, 12 March 1993, and sent to:

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

Contestants will be notified of the results in June, and a list of winners will be sent to each of the ANARC member clubs for publication.

Good luck from the 1993 NADXC Administrative Committee - Harold Cones, John Fisher, and Kris Field.

DXer's Forum

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

Now is prime time for late afternoon and early evening Asian openings on the tropical bands. This month David Clark shares with us his experiences with this fascinating phenomenon. Besides being an active DXer and NASWA member, Dave is the Chairman of the Ontario DX Association (ODXA). If you'd like to see a sample of DX Ontario, the monthly publication of ODXA, send \$2 to ODXA, P.O. Box 161, Station A, Willowdale, Ontario M2N 5S8 Canada. NASWA is proud of the relationship we have with our friends in ODXA and from time to time we share articles and tips that benefit both club's membership. Please mention NASWA when writing to them.

DXing Tropical Band Asians Longpath Theory and Practice

by David M. Clark*

In 1991, John Bryant and I wrote a four-part series for DXer's Forum entitled "Tropical Band Enhancements Associated with the Sunrise/Sunset Terminator". Parts 3 and 4, dealing specifically with sunset enhancements, appeared in the April and May editions of *The Journal*. Since we are now into the prime, mid-winter afternoon/early evening Asian longpath DX season for 1992-93, this is a timely opportunity to present a capsule version of what this is all about, together with a hit-list of possible targets of varying degrees of difficulty.

The purpose here is not to recapitulate the contents of our 1991 series but by way of review or for new readers, I will outline several important aspects that DXers should be aware of. I thank John for his assistance in the editorial review of a draft copy of this article - any errors or ambiguities in this final text are solely my own responsibility.

Where In The World Am I?

At the outset, it should be stated that the afternoon/early evening Asian longpath window for North American DXers is closely associated with the concurrent dawn/sunrise period in Asia. For this reason, those who are

living in the Eastern time zone are ideally situated to take best advantage of the "afternoon" opening to East and Southeast Asia. Reception in the Central time zone is much more difficult. Furthermore, as I will explain, Canadians and those American DXers located in northern tier states, also enjoy an advantage as compared with their counterparts living at lower latitudes. As for the "early evening" window to Central and South Asia, reception possibilities are about the same for all North American DXers in both the Eastern and Central time zones.

As a result of the relationship between North American sunset and the corresponding Asian sunrise, it is safe to say that DXers geographically located in the Mountain or Pacific time zones will not experience an East or Southeast Asia longpath "afternoon" window at Tropical Band frequencies. There is some possibility of mid-winter longpath reception of stations located in Central and South Asia, although loggings are rarely reported.

Relationship Of Openings To Geomagnetic Conditions

The reception of "afternoon Asians" (from East and Southeast Asia) is not a daily occurrence. Generally speaking, such reception is much more sensitive to solar

* R.R. #3
Newmarket, Ontario L3Y 4W1

control than the more traditional Asian openings associated with sunrise enhancement. Reciprocal (two-way) Asian longpath communications as engaged in by amateur radio operators on the low bands, especially 80 meters, is said to function best during high sunspot years in conjunction with quiet geomagnetic conditions. This is not at all consistent with the pattern of enhanced Tropical Band longpath reception from Asia that we experience. Perhaps the differences between our observations and those of radio amateurs are due to reception via non-reciprocal (one-way) paths, or other scarcely understood phenomena.

Specifically, my observation, and that of other Tropical Band DXers, is that Asian longpath (afternoon) signal enhancement is usually associated with the early stages (ideally with 12 hours of commencement) of a geomagnetic disturbance. These disturbances are most commonly induced by solar flare or coronal hole activity on the sun. A sudden change from "quiet" to "active" or "minor storm" conditions is often the harbinger of enhanced trans-equatorial reception of Tropical Band South American and sub-Saharan African signals too. MW DXers commonly experience enhanced reception of signals coming from the south in these same conditions. They refer to the phenomenon as "auroral conditions".

It is said that for every "rule" there is always an exception. Longpath reception from the eastern Indonesian time zone (Waktu Indonesia Timur) may just fall into that "exception" category. This season I have been more diligent in looking for the inherently brief and infrequent openings from Irian Jaya and Maluku which, at mid-winter, are in grayline alignment with my location. So far, I have noticed that reception, albeit at modest levels and only on a properly oriented Beverage antenna, has typically been associated with quiet geomagnetic conditions. This observation is based on only part of a single season and might just reflect an aberration associated with the present phase of the solar cycle. While it's much too early in the game to draw any conclusions, this is an aspect I'm going to be watching over the next few seasons as we head towards the next solar minimum.

For reception of "early evening Asians" (from Central and South Asia) the "ideal" state of the geomagnetic field is less predictable than for (most of) the "afternoon" signals. Generally speaking, however, I have not found that "quiet" conditions are likely to yield a good opening. While an enhanced opening to Southeast Asia is not necessarily a precursor of a longpath Sub-Continental (South Asia) opening, that potential certainly exists. The most spectacular Sub-Continental opening last season occurred on February 2/92 when the K index was = 4 at both 0000 and 0300! As you might imagine, the direct (short great circle) path was blocked by auroral absorption. My suggestion is to try "unsettled" or "unsettled-active" conditions.

Relationship Of Signal Path To Position Of The Terminator.

Late afternoon and early evening longpath reception (in the Eastern and Central time zones) is closely associated with the position of the grayline or terminator along all or part of the signal path. In an article in the November 1992 issue of QST magazine, 'An Introduction to Gray-Line DXing', Tom Russell speaks to this point:

"In the late afternoon, the low bands begin to open in a direction across the approaching terminator...As sunset approaches, signals from the southeast become more and more audible. From just before sunset until total darkness, signals will peak along the terminator (southeast) on all bands from 160 through 20 meters. Long-path propagation to Southeast Asia is especially good on 20 and 40 meters during this period, and occasionally on 80 and even 160 meters." (For our purposes, this is analogous to the 60, 75 and 90 meter Tropical Broadcast Bands.)

The author went on to conclude: "The Northeastern states have perfect gray-line alignment with JA [Japan], DU [Philippines], 9M6 [Sabah, Malaysia], 9M8 [Sarawak, Malaysia], V85 [Marshall Islands] and YB [Indonesia] in mid-winter. The Southeastern and Midwestern states have perfect gray-line alignment with HL [South Korea], BY1 [Beijing, China], BY4 [Shanghai/Nanjing, China], XU [Cambodia], XV [Vietnam], XW

[Laos], HS [Thailand], 9V1 [Singapore], 9M2 [West Malaysia] and YB [Indonesia] in the same period."

I would agree that great circle (longpath) "true grayline" reception, whereby the entire signal path is apparently governed by propagation within the grayline or twilight zone, does occur in some cases with respect to afternoon reception from Southeast Asia. The mid-winter path from Ujung Pandang (Sulawesi) and Toronto is a good example in that the respective SR/SS times are separated by less than 10 minutes. As noted above, grayline alignment may be supporting mid-winter longpath reception as far east as Irian Jaya too.

Otherwise, however, for those of us in the Eastern time zone, the more commonly heard stations - having transmitters situated further to the west (Sumatera in particular), generally peak when there is a "partial darkness" path between the transmitter and the receiver. John Bryant and I define this to mean a situation whereby there is a twilight (dawn or dusk) condition at one end of the circuit and complete darkness (post-sunset or pre-sunrise) at the other end of the signal path.

In the Central time zone, whereas there are many more mid-winter examples of potentially "true grayline" great circle long path alignments (varying according to one's latitude), the available window is nonetheless much more limited and reception proves to be difficult. These aspects are addressed more fully in the next section. In any event, the Asian signals that we are hearing via long path propagate around the horn of Africa and bend to the northwest (before reaching the eastern extremity of Antarctica) in accordance with the slope of the terminator. These signals then cross the eastern region of Brazil and eventually reach Eastern and Central North America. So, the arrival path in the western hemisphere is basically parallel to the steeply inclined slope of the mid-winter sunset terminator. As a result of this seemingly unconventional, non-polar and off-great-circle long path, reception is distinguished by a total absence of so-called auroral or polar "flutter".

It is also interesting to note that the azimuth

(the compass direction) of arrival of these signals is at virtually the same angle, no matter where the audible Asian transmitters are located! Tropical Band Asian signals propagated on either a grayline path or a partial darkness path (ie. morning twilight at the transmitter; post-sunset darkness at the receiver) arrive on a "skewed" (non-great-circle) long path at an azimuth of about 140-150 degrees. Optimum reception is obtained with a (terminated) Beverage antenna oriented to favor reception from this south-southeasterly (as viewed from the receiver) direction.

Relationship Of Afternoon Asian Signal Peaks To Local (Receiver) Sunset

While those of us in the Eastern time zone are ideally situated to log stations from most of East and Southeast Asia, it is important to appreciate that typical openings are manifest in very rapid fade-ups, peak levels - sometimes amazingly strong - for as little as 5-10 minutes, then followed by rapid fade-outs. Notice that this is quite a different pattern than Asian reception at dawn enhancement when fade patterns are generally more gradual. Unusually good afternoon openings occasionally result in some of the more reliable signals holding up well for as much as 30 minutes or more, given a good (directional) antenna.

As a general rule, in the Eastern time zone, mid-winter reception of signals from North Korea, the China coast and west-central Indonesia (Jawa, Sulawesi, and eastern Kalimantan) tends to peak variously between 2145 and 2215: ie. at or soon after sunset for my location near Toronto, Ontario. The timing is coincident with the approach of sunrise at the respective transmitter sites.

Thus, the alignment of the terminator implies "true grayline" propagation, at least in some instances, as is also the case for reception I've been experiencing this season (at 2105-2130+) of eastern Indonesia. Even so, peak reception at 15-20 minutes AFTER sunrise in Irian Jaya, at a time which is still 15-30 minutes BEFORE my sunset is an anomalous situation that I don't really understand. It should be noted that even within the Eastern time zone, DXers living in Canada and the

northern tier states are far better positioned with respect to reception before 2145-2200 due to earlier sunset times than in the southeastern states.

Next, at 2215-2230+ (post-sunset at my receiver) signals peak from interior (eastern) China, Mongolia, Vietnam, Cambodia, Malaysia, Singapore and eastern Sumatera. Signals from central and western Sumatera then peak variously between 2230 and 2300, except for Banda Aceh (2315) in the extreme northwest corner of the island.

Notice that in all these cases, the times of peak reception (from 2215 onwards) are variously one-half hour to more than an hour AFTER North American mid-winter sunset (above 40 degrees North in the Eastern time zone). Generally, though not in all cases, this happens to coincide with 15-30 minutes BEFORE sunrise at the respective Southeast Asian transmitter sites. (Reception from Sumatera is very consistent in this respect.) Some commentators loosely refer to this timing relationship as a "grayline" condition but by strict definition this is actually incorrect. As suggested in the preceding section, John and I think "partial darkness" is a more apt descriptor of the incident path. I might add that this pattern reinforces a point that we have been expounding for several years: "partial darkness" paths often yield better Tropical Band signal enhancement than "true grayline" paths.

DXers in the Mid-West (ie. in the Central time zone) face a much more difficult proposition when it comes to logging the "afternoon Asians" and again, latitude at the receiver is a factor. At 2300, the sunset terminator cuts the Gulf of Mexico and slopes in a northwesterly direction through the Mid-Western states and up into Saskatchewan. The slope of the terminator at the winter solstice results in considerably different local sunset times. For example, on December 21st, at 97 degrees W, sunset at Stillwater, OK, does not occur until 2316, whereas across the border at Winnipeg, Manitoba (also 97 degrees W), sunset occurs at 2226. Advantage: Winnipeg. Consider another example. At Kansas City, MO (94 degrees W), sunset occurs at 2257, whereas at

Minneapolis, MI (93 degrees W), sunset occurs at 2232. Advantage: Minneapolis. So, relative to the corresponding sunrise times on the Asian side of the world (see table at the conclusion of this article), it is apparent that reception in the Mid-West states (at latitudes below 40 degrees North) is likely to be confined mostly to Sumatera and the Malay Peninsula in a rather narrow window from about 2245 to 2300+, coincident with sunrise at the transmitter. Thus, as noted previously, it works out that prospective Mid-West reception of Southeast Asian signals implies a greater likelihood of a "true grayline" situation; nonetheless, reception is a major challenge due to the limited window. It is my experience that most longpath signals from Southeast Asia (especially those within 10 degrees of the equator) deteriorate very rapidly with the advent of local (at the transmitter) sunrise.

Relationship Of Early Evening Asian Signal Peaks To Local (Transmitter) Sunrise

After 2330, all of Eastern and Central North America are into early evening mid-winter darkness and the Asian sunrise terminator is well on its way towards the Sub-Continent. Subject to morning sign-on times, this is when DXers in both the Eastern and Central time zones should begin looking for signals from Bangladesh, the eastern frontier of India and Sri Lanka. A number of the Indian regionals sign-on in the 0015-0030 timeframe, a bit before their local sunrise. This is the time to log them on a partial darkness path associated with morning twilight/sunrise at the transmitter. Fade-ups tend to show about 30-45 minutes prior to the Asian sunrise.

Most of the more commonly-heard AIR sites are located above 20 degrees North (except Madras) and so signals do tend to hold up longer - typically for up to 20 minutes after sunrise...longer during especially good openings. While reported loggings are perhaps more common from DXers in the Eastern time zone, I would suggest that DXers in the Mid-West should enjoy an equally good early-evening chance at the Sub-Continents, at least near the winter solstice.

To The Dials!

Taking the above guidelines into account, following is a list of suggested Tropical Band Asian targets to try in the mid-winter afternoon/early evening. Watch for "enhanced" long path openings associated with geomagnetic activity. Remember too that in the case of the East and the Southeast Asians, consideration must be given to your local sunset time relative to sunrise at the transmitter. DXers in the Eastern time zone and north of 40 degrees enjoy a big advantage. Later on, long path reception of Central and South Asia (principally the Indian sub-continent) in both the Eastern and Central time zones is commonly a function of signal enhancement associated with the dawn/sunrise period at the transmitter.

From my own perspective, based on loggings from my home near Newmarket, north of Toronto, Ontario, I have assigned a relative ranking of reception difficulty. "Best bets" to use as "indicator" signals rate three stars (***) ; those which vary from moderately difficult to quite difficult garner two stars (**); and finally, the very difficult/rare catches are assigned but one star (*).

While this target list is by no means all-inclusive, I can say with a high degree of certainty that if an indicator station from a particular area is on the air but cannot be heard, then the more difficult catches are not going to be audible. Catch up on the household

chores and try again the next day! Still, antenna setup and the geographic co-ordinates of your location are the key variables and your results will surely vary somewhat from mine.

All stations listed are believed to be currently active and have been logged either this season to date or were logged last winter. Indeed, the Indonesians on 3266.4, 3324.9 and 3445 are last minute additions to the work list - each of these were first-time definitive loggings for me within the past month! I'm also hearing hets from "presumed" RRI Dili-3306.05 at 2135 and Radio Kashmir-3277 at 0130, so whether you're a newcomer or have been at this game for some time, there's always the potential for new catches. Recent frequency changes noted through mid-December are reflected too. One notable example is RRI Jambi which shifted in late November from long-time 4926.9 to 4925 where it suffers co-channel QRM and thus it no longer merits three-stars. In like manner, RRI Jakarta was reactivated a few months ago on 4777.1, a more difficult channel than its former 4774.7 and it too loses its three-star rating. AIR Delhi has remained on 4960 and used to be a worthy Sub-Continental indicator signal. Unfortunately, reception has become much more difficult since the powerful new Dominican Republic station, Radio Cima Ciento, recently settled on 4959.9v.

Good luck and don't forget to report what you hear to Sheryl's 'Tropical Loggings' column!

Ranking	Frequency	Station Name and Radio Country	Dec. 21 Transmitter Sunrise
<i>East and Southeast Asia</i>			
***	2850	KCBS / North Korea	2256
***	3231.8	RRI Bukittinggi / Sumatera	2314
***	3264.8	RRI Bengkulu / Sumatera	2301
***	3395.15	RRI Tanjungkarang / Sumatera	2246
***	4003.2	RRI Padang / Sumatera	2313
***	4719.26	RRI Ujung Pandang / Sulawesi	2150
***	4753.4v	RRI Ujung Pandang (alt freq)	2150
***	4894.6	Hanoi / North Vietnam	2331
***	4905	CPBS 2 (Beijing?) / China	2335
***	4909.7v	V of the People / Cambodia	2317
***	4950	RTM Kuching / Sarawak	2237
***	5010	SBC Radio 1 / Singapore	2303
***	5320	CPBS 1, Beijing / China	2335

Ranking	Frequency	Station Name and Radio Country	Dec. 21 Transmitter Sunrise
**	3224.8	RRI Tanjung Pinang / Sumatera	2300
**	3250	PBS Pyongyang / North Korea	2256
**	3320	PBS Hamhung / North Korea	2250
**	3350	KCBS / North Korea	2256
**	3904.8	RRI Banda Aceh / Sumatera	2344
**	4777.1	RRI Jakarta / Jawa (new freq)	2238
**	4855.8	RRI Palembang / Sumatera	2251
**	4883	R Beijing / China	2335
**	4900	V of The Strait, Fuzhou / China	2248
**	4915	Guangxi PBS / China	2324
**	4925	RRI Jambi / Sumatera (new freq)	2259
**	5019.8	Hanoi / North Vietnam	2331
**	5030	RTM Kuching / Sarawak	2237
**	5051.9	SBC Radio 1 / Singapore	2303
**	5256.4	RRI Sibolga / Sumatera	2324
*	3204.4	RRI Bandung / Jawa	2234
*	3222.9	RRI Mataram / Nusa Tenggara	2156
*	3249.8	RRI Banjarmasin / Kalimantan	2212
*	3266.4	RRI Gorontalo / Sulawesi	2145
*	3324.9v	RRI Palangkaraya / Kalimantan	2216
*	3374.4v	RRI Medan / Sumatera (irregular)	2328
*	3385	RTM Miri / Sarawak	2228
*	3445v	RRI Pontianak / Kalimantan	2239
*	4789.65	RRI FakFak / Irian Jaya	2102
*	4863.8	RRI Ambon / Moluccas	2116
*	4874.6	RRI Sorong / Irian Jaya	2109
*	4969.9	RTM Kota Kinabalu / Sabah	2222
*	5005.1	RTM Sibu / Sarawak	2233
<i>Central and South Asia</i>			
***	4500	Xinjiang PBS, Urumqi / China	0142
***	4735	Xinjiang PBS, Urumqi / China	0142
***	4860	AIR Delhi / India	0141
***	4920	AIR Madras / India	0058
***	4990	AIR Madras / India	0058
**	3345	AIR Jaipur / India (new, irreg)	0048
**	4081v	R Ulaan Baator / Mongolia	0042
**	4790.4	Azad Kashmir Radio (via Pakistan)	0210
**	4880	R Bangladesh / Bangladesh	0038
**	4902v	SLBC / Sri Lanka	0048
**	4940	AIR Gauhati A / India	0038
**	4960	AIR Delhi / India	0141
**	4995	R Ulaan Baator / Mongolia	0013
**	5085v	R Pakistan (Regional)	0210
*	3205	AIR Lucknow / India	0122
*	3315	AIR Bhopal A / India	0129
*	4870	SLBC / Sri Lanka	0048

DX Target



CAAMA Radio

The Central Australian Aboriginal Media Association

By Ernest Lawrence

DXers eager to grab one of those rare receptions from the 120 meter band should look for the Central Australian Aboriginal Media Association at 2310 and 2325 kilohertz. These two come from transmitter sites in the arid and sparsely populated Northern Territory of Australia.

CAAMA Radio began in the early 1980s as its organizers broadcast programs to aborigines using local and ABC facilities. They obtained their own public broadcasting license in 1984 and began operations as 8KIN FM. They currently have 14 operational FM transmitters in the region in addition to their two shortwave facilities.

CAAMA's programming consists of news and features broadcast in English and several aboriginal languages. They air community service bulletins, educational features and special programs for listeners away from home. CAAMA's musical offerings show great diversity. They play aboriginal, country-western, gospel and rock selections. I tend to hear the standard Australian C & W fare with announcers speaking in EG or LANG.

The Bush Radio Service for listeners in the distant countryside is provided by two fifty kilowatt shortwave transmitters. Station officials profess that their programs are received by shortwave enthusiasts around the world. I tend to agree, having heard them quite nicely last winter with a Realistic DX-440 and a longwire. The VL8A facility, on 2310 kHz during the Australian night and 4835 kHz in their evening, is located in Alice Springs at the foot of the Macdonnell Ranges of central Australia. The VL8T site, heard at 2325 kHz (Australian night) and 4910 (their day), is located further north in Tennant Creek. The two frequencies in the 60 meter band seem to be heard infrequently.

The 2310 and 2325 kilohertz frequencies appear often in the NASWA Journal's Tropical Band Loggings column, showing receptions between the months of September and April. They are heard best in North America between 10:00 and 12:00 UTC with the east receiving them early in this time period and the west later. The good news is that CAAMA is an excellent verifier. The NASWA Journal QSL Reports column mentions many full data cards received from this broadcaster.

Unfortunately, I received only a very friendly partial detail letter for my reception report. Clint Mitchell, the verification signer, apologized for being so slow to respond even though I received my QSL after only 45 days!

I wish other domestic broadcasters would reply as punctually. My correspondence contained a nice brochure that provided much of this information. While I am a QSL hound, the real treasure in the package was a very unusual CAAMA bumper sticker that currently helps to hold the tailgate of my rusty Ford Escort wagon together. Don't forget to request one of these. You won't see too many others on the highway! The station address is as follows:

CAAMA Radio - ABC
Central Australian Aboriginal Media
Association
Bush Radio Service
P.O. Box 2924
Alice Springs NT 0871
AUSTRALIA

Literature I received from the station says that inquiries about CAAMA should be directed to Barbara Richards. Passport to World Band Radio names Rae Allen, Regional Program Manager, as a contact. My QSL was signed by Clint Mitchell, Receptionist. Two IRCs are recommended for return postage.

Easy Listening

Richard D. Cuff
213 Parkview Avenue
Allentown, PA 18104-5323
GENie R.CUFF
MCI Mail 375-4854
CompuServe 71207,1604
Prodigy NCH70A

Sorry About December...Sorry About the BBC

Business responsibilities consumed my usual time for shortwave listening and column writing for the *Journal*. On top of that, I never received my December issue of the new *BBC Worldwide* program guide. I decided just to skip the December column. Sorry 'bout that.

Unfortunately, I didn't receive the January issue of *BBC Worldwide* either. As a result, the January column will be shorter than usual. I'll be contacting the BBC in January when I return home to ensure I receive the February issue in time for the February *Journal*.

Winter SWL Festival

I look forward to meeting many of you at the Winter SWL Festival coming up next month in Kulpville, PA. I'll be leading a Forum session on Easy Listening on Saturday morning (time tentative). If you've never been to a Winter SWL Festival, you've missed great times of fun and fellowship with fellow shortwave enthusiasts. Whether novice (like me) or expert, a good time is generally had by all.

Radio Netherlands

With the new 2330 UTC broadcast to North America, we can now hear all of Radio Netherlands' features in broadcasts targeted to North America. I covered the 2330 lineup in the November 1992 *Journal*; a detailed review of each program may be found there. Here's an up-to-date listing of the feature programs in each hour, sorted by the day of the week:

Sunday (2330) - Monday (0030):

2330 - *East of Edam* is a program now hosted by two women focusing on unusual places in the Netherlands, plus profiles of prominent women in all sectors of society. A segment entitled "Man Talk" has men sounding off about women.

0030 - *Happy Station* enters its 65th year in 1993 with a new presenter: Pete Myers, who has taken over for Tom Meijer. The program will still target younger listeners, but nonetheless expects a cross-section of people. More phone calls from Pete Myers to listeners can be expected - so, always include a home and work phone number if you write to the *Happy Station* program.

Monday - Tuesday:

2330 - *Let's Get To Business* was reviewed in my November 1992 column. The program looks at the business world from a Dutch perspective. *CDutch* looks at recent classical/"serious" music releases.

0030 - *Research File* was reviewed in the November column in its 2330 Thursday release. This is an additional release, covering various aspects of science and technology.

Tuesday - Wednesday:

2330 - *No Boundaries* was reviewed in the November column. The *Radio Netherlands* puts a slightly different spin on the program description than I reported: According to the program guide, *No Boundaries* focuses on development issues.

0030 - *Mirror Images* looks at how a changing world is reflected in its artists. Film, theatre, music, and dance - classical, modern, popular, or alternative - all are tackled by David Swatling.

Wednesday - Thursday:

2330 - **Encore!** is a general title for a time slot reserved for repeat airings of past series. January will see a repeat of Radio Netherlands' profile of Dutch cities. The series *In So Many Words* aired this past fall and was reviewed in my November column.

0030 - **Documentary** is another general title for a time slot reserved for one-time special in-depth programs or short series. European unity will be explored in January; a 40th anniversary retrospective of the Dutch winter floods of 1953 will be the subject in February.

Thursday - Friday:

2330 - **Research File** has its second airing of the week in this time slot.

0030 - **Media Network** is Radio Netherlands' weekly survey of communications developments and how the media report significant international events. Long a staple of many a shortwave listener, Media Network is one of the most comprehensive programs of its genre on the air these days.

Friday - Saturday:

2330 - **Documentary** has its second weekly airing at this time.

0030 - **Towards 2000** is a new social affairs magazine program taking a look at how current events will shape the future. The program, hosted by Martha Hawley, focuses on events taking place in Northern Europe.

Saturday - Sunday:

2330 - A second airing of **Towards 2000** is the feature program.

0030 - **Sounds Interesting** profiles the sights and sounds of the Netherlands and answers listener questions. This is Radio Netherlands' current listener feedback program.

Current frequencies for the North American releases are 6165 and 6020 kHz; 11835 is also used for the 0030 broadcast. The 0030 release is repeated at 0330 on 11720 and 9590 kHz for Western North America.

Other programs, targeted for other parts of the world, can often be heard when Radio Netherlands' Bonaire (Netherlands Antilles)

relay is used. This would include the 0730, 0830, and 0930 releases to the Pacific, and the 1730, 1830, and 1930 releases targeted to Africa.

HCJB - The Voice of the Andes

HCJB has been one of the more frequent experimenters with single sideband transmissions for some of its broadcasts. HCJB is considering a 24-hour English language program on the SSB frequency 21455 kHz. If you have any input or suggestions, drop HCJB a line.

HCJB Today is a relatively new program airing Mondays at 0200 where HCJB missionaries share new developments in HCJB's various mission efforts. Education and education ministries are featured on the January 11th program; Host Ron Cline chats with HCJB's National Personnel Director, Jim Estes, and finds out about missionaries' favorite Ecuadorian vacation spots on the January 18th program.

Ham Radio Today is one of the few programs on shortwave that focus on amateur radio and electronics hobbies. A review of basic electronics technologies is on tap for January: a review of the principles of current is featured on the January 7th and 14th programs, with the principles of voltage on the January 21st and 28th programs. Each week's program includes a featurette on computing and on utility listening.

If you're a fan of live call-in programs, plan ahead for the February 13th **Musical Mailbag**: This is HCJB's listener response program, and will feature live telephone conversations with listeners. The phone number is your international access code (011 in North America, 010 in the UK), followed by 593-2-241-560. When you call, let the phone ring -- the phone won't be answered until it's your turn to talk.

That's all for this month. See you, hopefully with the full BBC highlights package, in February.

Until next month,
73 DE Richard

Asian Destinations

Mitch Sams
779 Galliea Court
Blue Springs, MO 64014



Welcome to 'Asian Destinations' for January and this month's topics: more new transmitters on the air from India; rare Asian QSLs snared in the Northeast US; and a little-known remote central Asian country that has been lost in the political events of the last half of this century - and interestingly - it has a shortwave station!

INDIA

India has become a real hotspot for shortwave activity recently with the addition of new transmitter sites and the upgrading of existing services.

Sikkim, the exotic northern kingdom of India, is planning to put a shortwave transmitter on the air soon from the city of Gangtok. Look for tests on 3390 and 4775 kHz (Guwahati also uses 4775!). An All India Radio (AIR) external service outlet with 250 kw from Bambolim, *Goa* should become active by the time you read this. Watch for tests on 5980, 7200, 9650, 11915, 15145 or 17750 kHz. This former Portuguese colony on the western coast of India has been silent on shortwave since the early 1960s. AIR Srinagar, *Kashmir*, on 3277 kHz, has been upgraded to 50 kw and has been logged on several occasions in North America already this fall. Look for English news from Delhi sometimes heard on this channel from 1230-1235 UTC.

All of this new activity has resulted in some confusion on the bands, especially since India has chosen a surprising and perplexing approach to frequency allocation. Several of the new outlets, during initial test broadcasts, are sharing frequencies used by established Indian regionals. In addition, some frequencies are being swapped between

old and new sites making it difficult to know which site is being heard.

PENNSYLVANIA: ASIAN DX MECCA

It looks as if an excellent Asian DX season is underway for North American east coast listeners. One of several surprises from out east is Dave Valko in Pennsylvania who recently bagged a QSL from one of the rarest Asian "NASWA radio countries" - *Andaman Islands*. These islands are part of India and located off the eastern coast of that country.

Dave's prized verification is the result of a taped report for the 4760 kHz transmitter mailed directly to Port Blair, Andaman Islands. This one has been extremely difficult to ID because of the high-powered Chinese regional as well as the reported activity of two other Indian regionals at Imphal and Leh, Kashmir; all on 4760! A positive site identification for Port Blair is a must in this situation.

As I am writing this column I also see a report that Jerry Berg in Lexington, Mass. has just verified AIR Port Blair. Looks as if Jerry has conquered the mystical "DX Wall of Death" for Asia!

TANNU TUVA

About two months ago I bought a 1946 National Geographic world map. This map clearly depicted all of the Soviet republics annexed by then - Lithuania, Estonia, Latvia, Uzbek, Tajik, Armenia, Georgia, etc. All of these new Soviet Republics had their borders highlighted as a province or state of the USSR - in the same color. However, one small republic, located on the Mongolian border in central Siberia, was highlighted in a different color - as the other countries of the world are - and had its

own, non-Soviet name (i.e. no "-SSR" appendage to its name). The country was labeled as "Tannu Tuva", with its capital marked at *Kyzyl*.

Not even being aware of the past existence of the country of Tannu Tuva, I researched the subject. Here's some of what I found....

Tuva, or the Tuvinian autonomous oblast in the Russian republic has an area of about 170,500 sq km (65,800 sq mi) and a population of 282,000 (1986 est.). The economy is based on pastoral farming, lumbering, and mining. Part of China from 1757 until 1911, the region became an independent republic, Tannu Tuva, in 1921 [there is some question as

for this station in North America. Care should be used since there is a higher powered outlet active on this frequency from Khabarovsk. *If anyone has information on broadcast activity from Kyzyl, or any background on Tannu Tuva I would appreciate you dropping me a line.*

TRAVEL ADVISORY ADDRESS

Per a few readers requests I have an address that might work for obtaining the "Worldwide Travel Advisories" that I discussed in my last column: Department of State, Bureau of Consular Affairs, Public Affairs Office, Room 5807, Washington D.C. 20520.



to the status of this independence period - ms). It was incorporated into the USSR in 1944. The Tuvans are a Mongoloid people speaking a northeast Turkic language. Tuvans are fine-featured, with yellowish skin, high cheekbones, and distinct inner-eyelid skin folds. Originally nomads, they traveled cross-country on fur-wrapped skis in the region of the snow-capped Sayan Mountains. Clothing consisted of cotton undergarments, felt or sheepskin long-coats and hats, and leather boots; this is still the Tuvan costume. Tuvans are noted for fine felt-work and blacksmithing.

I checked various radio lists and discovered that there is a low-powered shortwave outlet reported to be operational on *3995 kHz* from Kyzyl. The "Tropical Band Survey" notes that it has been reported recently, although rarely. I can't remember seeing a report

MISCELLANEOUS

In *Bosnia Hercegovina* it is looking very bleak for Sarajevo as the Serbs tighten their strangle-hold on the city. Earlier in November Jerry Berg reported Radio Bosnia audible here in North America on 6220 kHz. Coinciding with the worsening situation in Sarajevo it appears as if the outlet on 6220 kHz has gone silent.....I've noticed that the outlet from *Dushanbe, Tajikistan* on 4635 kHz has been very sporadic lately. Heavy fighting between Muslims & local ethnics have resulted in disrupted electrical power and mail service in that city.....Keith Hill in Pine City, NY reported *English from Saudi Arabia* on 9705 kHz around 2030-2100 UTC - this service is not often heard in North America.

73zzzzz..... Mitch

Down To Earth Antennas - Part 2

This time we will continue the discussion of antennas designed specifically to optimize reception. In part 1, appearing in the December 1992 issue of the NASWA Journal, we showed why antenna efficiency is much less important for reception than for transmitting applications. Avoidance of man-made or naturally generated noise through the use of small, directional antennas can maximize the received signal-to-noise ratio.

In this issue we will examine why small, active antennas can outperform full size antennas in noisy environments. We'll also examine why antennas that are near the ground (hence the title) can provide good DX performance when unusual propagation conditions exist.

How can active antennas discriminate against noise?

The active antenna can provide the SWL with improved signal to noise performance because the location of the antenna can be chosen to minimize pick-up of locally generated noise. Such interference is often radiated directly from the source and indirectly by power lines, cable TV shields, telephone lines, wire reinforcement in stucco walls, metal structure in apartment buildings, TV antenna lead-ins, etc. Every conductor is a potential re-radiator of interference.

The direct signal can add in phase with the indirect signal or the two can add out of phase resulting in cancellation of the interference. If you explore your receiving location with a portable SW radio, you will find places where the cancellation effect causes the noise to diminish or disappear. These null spots are usually quite small physically. The null locations will tend to change with frequency because the signals which are cancelling each other travel different distances. As the frequency (and consequently the wavelength) of the signal changes, the relative phase of the direct and indirect signals will change. The physical place where they cancel will, therefore, move. An antenna which takes advantage of this effect must be physically

small enough to stay within the null spot. Full size antennas occupy a lot of area making it difficult to keep them within a null region.

Recently, I was plagued by a touch control lamp in my neighbor's house which radiated strong, wideband buzzing harmonics across the HF bands. Not knowing immediately what was causing the problem, I explored my house with a portable SW radio in search of the offending signal. I discovered a location in the attic above my garage where the interference could not be heard. The direct signal from the lamp and the signal radiated from the power wiring combined at this one spot and cancelled each other out. An active antenna at this spot would be immune to the interference.

Do active antennas have a downside?

Yes, active antennas have at least two problems. One is susceptibility to overload and intermodulation. The World Radio and TV Handbook did a review of active antennas a couple of years ago where they evaluated the various brands for overload performance. I no longer have the book but remember that the more expensive units gave the best performance (surprise!). Alan Johnson reviewed a representative unit in the December 92 NASWA Journal. The other disadvantage, which is common to all physically small antennas, is that small antennas are more susceptible to fading than large antennas. HF waves propagated via the ionosphere can simultaneously arrive at the receiving antenna after having travelled different distances. When this happens, the waves can add to improve reception if the waves are in phase. Conversely, if the waves are out of phase, deep fades of 20 dB or more can result. Long wire antennas do not experience this effect to the same degree, because their greater physical size means that somewhere on the wire, at any instant, the waves do not cancel.

The small antenna can thus experience a momentary gain of 6 dB as the waves coherently add in phase and momentary fades in excess of

20 dB when they cancel. The DXer who is patient can wait for the peaks to occur at the time the ID is given. Murphy's Law, however, dictates that IDs will always occur coincident with fades.

Some engineers combine the active antenna amplifier with the loop and active vertical whip to provide a compact, efficient, directional antenna. Techniques also exist to phase active antenna to achieve multiple simultaneous beams and to generate multiple nulls on interfering signals. These techniques usually require many antenna elements, computer controlled phase shifters, and specially designed software. Such antennas have found application in military and intelligence circles but the complexity is beyond the capability of SWLs without PhDs in electrical engineering to implement.

I have a large yard but outside antennas are forbidden. The copper police keep demanding that I take my antennas down. What can I do?

Put your antenna under or on the ground. Remember, efficiency is relatively unimportant. If buried, keep the antenna as close as possible to the surface to minimize absorption loss.

Last month we discussed the Beverage antenna which can be mounted close to the ground. Another design that has gained some popularity is called the "snake". The snake has been around for about 15 years but knowledge about it has been confined to the radio underground (pun

intended). The snake is shown schematically in Figure 6. The coax cable center conductor is connected to the receiver antenna terminal. The shield is left floating at the receiver. The shield and center conductor are shorted together at the far end. Aficionados of this antenna say it has very low noise and is broadbanded. Personally, I find little theoretical reason to believe this antenna would be any better than an equivalent length of insulated wire laid on the ground. With cheap coax selling for \$.20 to \$.50 per foot, the extra expense of using coax seems unwarranted.

I have used a 100 foot wire buried a few inches below ground level for about a year now. The gain is down about 30 dB referenced to a half wave dipole on most signals around 6 MHz. When conditions are good the signal to noise at this frequency approximates the dipole. When signals are disturbed by ionospheric absorption effects, the additional loss of the buried antenna reduces the already weakened signals so the dipole has a signal-to-noise advantage. In the medium wave spectrum, the buried wire outperforms the dipole. I use this antenna to listen to New York City broadcast stations during the day from my location some 290 miles to the south. The buried wire is susceptible to noise pickup where the wire enters the house. I can hear my computer monitor and printer doing their things on this antenna but not on the dipole.

One solution to the local noise problem is to combine the single buried wire with a coax feedline to shield the line from noise pickup in the radio room. A design which I intend to try is shown in Figure 7. The coax cable should only

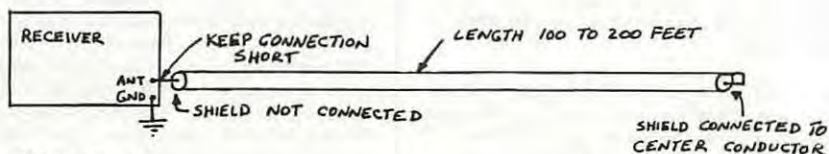


FIGURE 6

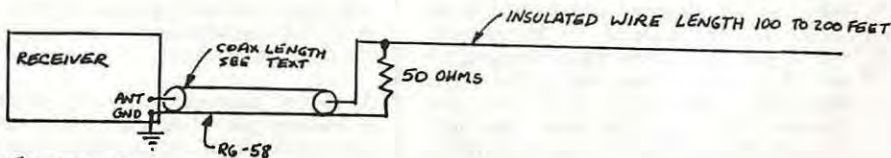


FIGURE 7

be long enough to keep the wire away from the noise source. The 50 ohm resistor serves as a load for the coax cable. An improperly matched cable could cause the antenna to appear to be a near short circuit across the receiver antenna terminals at frequencies where the coax length is an electrical quarter wavelength. The 50 ohm resistor provides a reasonable impedance match which avoids such resonance effects.

Is there an optimum antenna height above ground for a horizontal dipole ?

The answer depends on what you want to do. SW broadcasters targeting international audiences aim for the lowest possible radiation angle to minimize the number of hops the signal takes bouncing between the ionosphere and earth. Each bounce increases the loss. The objective is to provide consistently strong signals on the target area every day. The SW DXer on the other hand often waits months for the unusual propagation condition that brings in that weak Bolivian or Indonesian station.

These anomalous propagation modes are often associated with ionospheric ducting, grayline, or "whispering-gallery" effects with high arrival angles. Figure 8 shows the elevation angle response of a horizontal dipole over perfectly conducting ground. Over normal dirt the pattern has the same shape except that the nulls are less deep and the peaks are not as strong. As the

antenna height is reduced to a quarter wavelength, the pattern shifts to direct the peak response straight up. At lower heights, the pattern shape remains nearly constant, only the efficiency decreases. Antennas which are less than 40 feet high and operating at 6 MHz and below will have this kind of vertical response pattern.

A high antenna which concentrates reception at low angles will be the best day-to-day performer. A low antenna which maximizes reception from high angles takes best advantage of the unusual conditions that result in the really rare DX catches. Unusual propagation is most frequently observed on the tropical bands because the transmitting stations usually use low dipoles to ensure good signals at ranges of a few hundred miles. When conditions are right, the high angle radiation is propagated to the other side of the world instead of being reflected to the target areas. The signals arriving from high angles are most efficiently captured by receiving antennas with high angle patterns.

Murphy must have been asleep when the laws of physics were drafted because he allowed the easiest antenna to erect to also be the best for DXing under anomalous propagation conditions.

Next month we'll look at a new commercial version of the Beverage antenna which offers sharper directionality. It was successfully deployed by UN forces during the mother of all battles. Until next time, stay tuned.

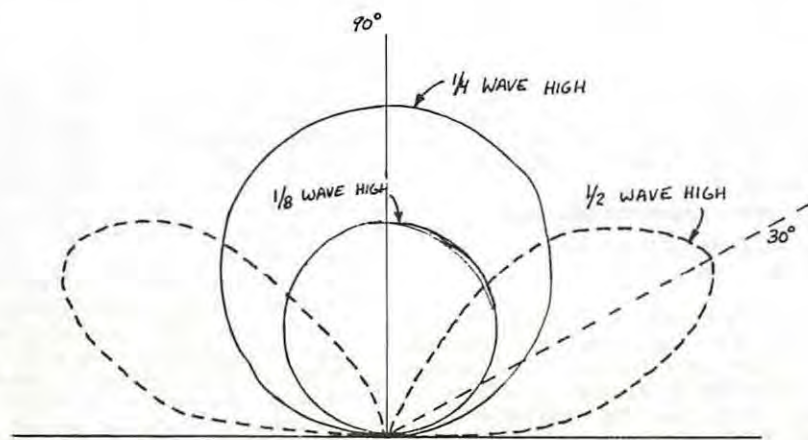


FIGURE 8

Listener's Library

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

Well, it has been three and a half years since I've written for NASWA. Let me start out by thanking Bob Brown, Bill Oliver and the rest of the crew for inviting me back. It kind of feels like moving back to your old hometown.

Once I found out that I was going to be responsible for the Listener's Library, I got on the phone to all of the major shortwave radio publishing houses and said "Hey, send me some books folks!" You will be pleased to know that the booksellers are coming through. What I will try to do is give you a comprehensive review of one or two books on the shortwave broadcast hobby each month. If any related, but not quite, shortwave broadcast books catch my eye, I will toss in a few words under the heading **SHORTWAVE SIDELINES**. When I was the editor of the Technical Topics column, folks often sent in written contributions. NASWA works best when everyone participates! So if you run across a book or a piece of software that you think the membership needs to know about please jot down your opinions and send them to me at the above address or GEnie mailbox. I also know that some of our members are authors in their own right. I'd be pleased to review your latest works if you send them in. My letter carrier is a weight lifter, so send in all that you want.

To emphasize the participatory nature of this column from the get go, give a look at the contributions sent in by none other than Wyoming's favorite son, **RICHARD A. D'ANGELO**.

PROCEEDINGS 1992-1993 By Fine Tuning

It's hard to believe but this year's volume of *PROCEEDINGS* marks the fifth anniversary of this superb hobby reference. In just five short years, the **Fine Tuning** gang has established this annual publication as the hobby resource. We have come to expect top quality whenever the **Fine Tuning** name is used. This year's *PROCEEDINGS* continues the tradition. The 1992/1993 edition contains another group of excellent articles written by some of the top

names in the hobby today. Enjoy them because there will not be another issue of *PROCEEDINGS* for two years! Why? After progressive improvements in graphics, printing and consistency of presentation each year, the editorial team has determined that a production schedule break is necessary. A biennial publication cycle will enable the small staff more planning and production time as well as allowing authors' more research and development time for the cutting edge articles that *PROCEEDINGS* has become famous for.

The improved graphics can be seen throughout this year's editions. Many superb graphs, charts, pictures and illustrations are used to graphically enhance this volume. The many hours of labor are well worth it. The receiver articles really come to life thanks to the graphic improvements. However, those wonderful visual improvements take valuable time that is difficult to find with a small staff. The biennial production cycle will enable the staff to continue this high quality visual feast.

Once again, I had an opportunity to experience the **Fine Tuning** editorial process from the inside. My perspective as a member of the Editorial Review Board provided me with insight as to how difficult a process writing for *PROCEEDINGS* can be. It is a very rigorous review process which yields some truly magnificent written works thanks to the technical and editorial torture rack authors' manuscripts are subjected to. Writing for *PROCEEDINGS* is not a casual affair. Completed draft articles go to David Clark for distribution to the appropriate Editorial Review Board members assigned to a particular feature. Generally, he selects about six members of the review board and two staff members to review each article. Compare that to the review process that occurs prior to publication of our monthly bulletin! Some members of the review panel are selected for their knowledge in the subject that article is covering; others are selected to represent the average reader. *PROCEEDINGS* standard of excellence is dependent upon the work of this group. The critique process is instrumental in achieving excellence. Other members of the 1992 Editorial Review Board were Guy Atkins, John Bryant,

David Clark, Harold Cones, Gerry Dexter, Bob Eldridge, Werner Funkenhauser, Nick Hall-Patch, Don Jensen, Fritz Mellberg, Don Moman, Don Moore, Bruce Portzer, Mitch Sams and Harold Sellers.

The Editorial Review Board makes a significant contribution to each feature article. The big red pencil of Fritz "The Chopper" Mellberg insures a sound, understandable writing style. Additional insights are provided by the other members of the Editorial Review Board through their collective technical expertise. Over the years, the *PROCEEDINGS* gang has managed to capture the hearts and minds of the serious spectrum monitors with heavy hitting features on most aspects of the hobby. Unquestionably, *Fine Tunings PROCEEDINGS* series continues to be the technical reference for the hobby. This valuable resource is one item that should be sitting on the bookshelf of every hobbyist. What follows is our traditional look at each of the main sections of *PROCEEDINGS*.

ANTENNAS (20 Pages)

The three antenna articles presented this year should catch the interest of most hobbyists. Bill Bowers looks at eight well known active outdoor antennas and puts them through a side by side performance comparison. Don Moman chronicles his adventures setting up a huge log-periodic antenna. Rounding out the antenna features is a discussion on antenna grounding by Nick Hall-Patch.

RECEIVERS (40 Pages)

Another solid batch of receiver articles is presented in this year's edition of *PROCEEDINGS*. Staff member David Clark leads off with a look at an "S Line" classic - the Collins 51S-1 communications receiver. Bennett Basore describes new re-calibration methods for receivers and BFO's. Two of the more interesting communications receivers entering the market recently were the British products manufactured by Lowe. The HF-225 and HF-150 are discussed in detail by Elton Byington in this superb analysis about these fine communications receivers. Two of the biggest name receivers to hit the market have been the Japan Radio Company NRD-535 and the Drake R-8. Bob Evans tells us about Japan's latest upgrade in communications receivers while Elton Byington compiles the collective thoughts of numerous DXers concerning Drake's re-entry into the shortwave marketplace with the R-8.

PERIPHERAL EQUIPMENT (20 Pages)

The toys and gadgets department contains the usual array of goodies to fascinate the hobbyist.

Bob Eldridge talks about the S.E.M QRM eliminator which reduces or eliminates interfering noise or signals before it reaches the antenna terminals. James Goodwin presents two features. The first discusses the CCI TK-1 digital readout for vacuum-tube receivers. The second is about the new Kiwa IF filter module which can provide an inexpensive answer to many skirt selectivity problems. Finally, Don Moman presents a number of listening-oriented construction projects that should appeal to shortwave and medium wave DXers.

FEATURES (102 Pages)

The real meat and potatoes of this year's edition is the Features section. Half the book is devoted to special articles on a wide variety of subjects. The eight big articles really get the juices flowing. First, HCJB's Rich McVicartakes us on a detailed tour of shortwave radio in Ecuador. Next clandestine DXpert Hans Johnson lifts the veil on DXing clandestine broadcasters in the middle east. Two Hallicrafter receiver profiles are next. The first is about the S-38 by Chuck Dachis and the second is about the SX-28 by John Bryant. Elton Byington covers the classic HRO series produced by the National Company. First time author Mark Connelly tells readers about a fabulous DXpedition to Newfoundland in 1991. The FT Staff continues compiling shortwave transmitter site information which can be utilized with various PC software programs. This year the Western Hemisphere is covered by the staff. Finally, Jerry Berg provides a glimpse into the early days of shortwave broadcast DXing. From 1912 up until World War II, Jerry discusses the people, the stations, the clubs and much, much more. This is a collectors item for the shortwave broadcast historian.

Since five years and over 1,000 pages of top notch material can be difficult to keep track of, the staff compiled a comprehensive index, by subject, for all *PROCEEDINGS* articles published to date. This year's volume carries this useful master index.

IS PROCEEDINGS Worth The Price?

Each year I close my review of the current volume of *PROCEEDINGS* with the same question. The answer is always the same - definitely, yes!!! The scope and breadth of the subject matter, the rigorous editorial process and the dedication put into this project make *PROCEEDINGS* a "must have" publication that should be in the library of every hobbyist.

PROCEEDINGS 1992/1993 costs US\$19.50 plus US\$4.00 postal costs in North America. Outside North America surface book rate postage is

US\$5.00 and small packet airmail is US\$17.00. Make checks or money orders (US funds on a US bank only) payable to:

Fine Tuning Special Publications
c/o John H. Bryant
RRT #5, Box 14
Stillwater, OK 74074 U.S.A.

The demand for back issues of the *PROCEEDINGS* series continues to be very strong. Consequently, the Fine Tuning Special Publications gang has decided to keep a limited supply of prior editions in print to meet this demand. The first four volumes, 1988-1989-1990 and 1991, are available for the same price as the 1992/1993 edition. Each year I note the number of multiple purchases increasing as more people discover the *PROCEEDINGS* anthology. While ordering all five editions will set you back over US\$100.00, it will be money well spent. The informational, educational and entertainment value of *PROCEEDINGS* can not be beat.

Without question, the *PROCEEDINGS* series continues as the finest hobby reference work that DXers can develop for DXers.

INSIDE YOUR SHORTWAVE RADIO By Ted Benson, WA6BEJ

Another new release from Tiare Publications hit the streets this month. Ted Benson's *INSIDE YOUR SHORTWAVE RADIO* is required reading for those hobbyist with an interest in learning some of the technical aspects of the hobby. However, the book is not filled with only highly complicated technical details that only a technical hobbyist can understand. Rather it is geared to help the newcomer to the hobby understand what is happening under the hood of his/her receiver. Frankly, it is a very useful addition to anyone seeking knowledge beyond what is available in the receiver instruction manual.

The author is a freelance technical writer and former *Technical Topics* editor for the *JOURNAL*. He has an advanced class amateur license, two Volunteer Examiner certificates and is a Mobile Staff Officer with the San Diego Sheriff's Office. Benson is active in the Radio Amateur Civil Emergency Service organization and holds an FCC General Telephone License with a Ship Radar endorsement. Overall, he is well qualified to present technical matter in a clear understanding style.

This ninety-six (96) page book consists of six chapters which covers super-heterodyne receivers, CW and SSB reception, RTTY and FAX, different tuning and displays, receiver enhancements and accessories. There are two appendices which address antenna and ground connections in addition to answering many commonly asked questions. A very handy, and extensive, glossary of terms is provided which is very useful. *INSIDE YOUR SHORTWAVE RADIO* features many helpful illustrations that clarify the text. The book's cover is a classic featuring a top down view of a modern communications receiver. All this information in a full sized 8 1/2 x 11 inch format which makes it easy on the eyes.

The adventure begins in chapter one which follows a shortwave signal from the antenna through the sections of a typical heterodyne receiver. Benson continues by exploring important advancements in receiver technology. Discussions about phase-locked loops, pass band tuning and exalted carrier single sideband reception follow. Besides discussing the usual accessories such as antenna tuners, preselectors and active audio filters, Benson tells us about unusual items like a spectrum display. Tips on adding an external speaker or tape recording received signals are also included. Benson's easy to read style makes it all seem so clear. Those of us that have unsuccessfully battled technical texts in the past should find this reference a welcomed addition to the DX shack. *INSIDE YOUR SHORTWAVE RADIO* is available from the Company Store (2641 S. Shields Street, Philadelphia, PA 19142 USA) for a special price to NASWA members of US\$13.95 plus US\$2.00 shipping and handling in North America (that's a total of US\$15.95), US\$3.00 elsewhere (or a total of US\$16.95).

Thanks Rich. Giving me "light duty" on the first column is a big help.

By the time you read this the World Radio TV Handbook for 1993 should be well on its way. With all the changes that have occurred in the world these last few years, I do not envy ANDY SENNITT and BART KUPERUS. Still, I'm glad they made the effort. This book remains a "must have" for serious listeners. Once I have perused the 93 WRTVH, you can look forward to some comments right here in the LISTENER'S LIBRARY. See you in Kulpsville, folks!

NASWA Portraits

Jerry Klinck

43 Lein Road
West Seneca, NY 14224



Welcome to another NASWA Portrait. This month we head north to visit a friend and neighbor from Blue Jays country. Congrats to all you fans, of which I am one. In fact, I can't think of a major league baseball team that is more popular in western New York, than the "Jays". Off we go to beautiful Toronto and a visit with Vern Nicholson

"I'm 30 years old and I've been DXing on and off since 1975. I'll never forget the first time I turned on an old Normende radio and heard VOA. 'WOW!' That's from GREENVILLE, NORTH CAROLINA! How exotic! I was 14 and the world of shortwave was magical. Sometimes I think the biggest challenge for long-time DXers is to recapture that initial spark, because after you capture the 'easy' countries, it can be a lot of work!"

"My first 'real' radio was a Realistic DX-160, which was a whole lot of fun to tune, as I am sure most of you know. In 1976 my father bought a Yaesu FR-101; he used it for ham DXing and I used it for shortwave listening. At the end of last year I got the DX bug again and decided to splurge on a Sangean ATS-803A. I was simply amazed at how well it performed, for the price. And digital readout too! I guess my experience with receivers goes to show that you don't need a top of the line radio in order to DX and enjoy the hobby, though I'm sure it wouldn't hurt at all either!"

"I'm basically a pretty lazy DXer. I can't seem to get up at 4:30 in the morning to hunt for Peruvians (or anything else for that matter). So I usually end up listening on the days and times most convenient for me, which may or may not yield a whole lot of interesting DX. I do keep a list, by country and by time, of my 'top ten DX targets' and that helps: I can call up a frequency, even if I have only five minutes to listen, and see if anything is happening. If not, it's back to the laundry or whatever."

"One thing that has been hampering my DX efforts lately is this, and it may be a by-product of apartment living: I notice that, from late afternoon till about midnight

local time, ALL the tropical bands, and to some extent even 49 meters, are completely blanketed by a buzzing noise. For example I can barely make out Ecos del Torbes on 4980, and that's all for 60 meters. CHU just barely squeaks through on 3330, and some nights I can't hear it: and even the BBC on 5975 is unpleasant to listen to some evenings. Is this the result of having too many TV sets surrounding my poor defenseless antenna? Any ideas?" *(More likely the result of too many dimmer switches in your building. Actually, there are a lot of possibilities and some very good material available to educate one on various types of Radio Frequency Interference (RFI). Hunting it down and correcting it can be a chore, but well worth the effort. - - ed.)*

"Among other things, I play bass and keyboard in a rock band called 'Sour Landslide'. I've occasionally used samples from shortwave broadcasts in musical compositions, and I find that just hearing the various types of music on the airwaves can spark some interesting musical ideas. (If anyone is interested in the use of SW samples in songs, listen to: 'My Life in the Bush of Ghosts' by David Byrne and Brian Eno. A lot of Middle Eastern singing and textures seem to be lifted straight from shortwave broadcasts. Also, a band called 'Manufacture' put out an album called 'Terrorvision'; the last track has a 'solo' featuring Radio Moscow and WWV!)"

"Lately, when I send taped reports, I always include, among other things, some of my bands' music on the other side of the tape. It's kind of a uniquely personal touch, I think. However, it's too early to tell whether it encourages or discourages QSLs - - hi!"

Thanks for the interesting profile, Vern. You're fortunate to be able to send along your own music. The rest of us have to settle for "commercial" stuff. If I've learned anything in my years of DXing, I've learned that while a decent receiver and antenna are necessary and a tape recorder and a couple of good books are desirable, THE MOST IMPORTANT THING IN DX is TIME SPENT!

73 to all!!!

Listener's Notebook

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

COPYRIGHT NOTICE - Items credited to WBI (World Broadcasting Information) are copyright by the BBC Monitoring Service and may not be reproduced without BBCMS permission.

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

AUSTRALIA - R. Australia began a new service to Cambodia in Khmer 12/1. R. Australia has a prominent role in the Paris Agreement. There is little interest in Cambodia among Western broadcasters. VOA is the only other one broadcasting to Cambodia [but see below]. RA's programs will concentrate on world news and news of SE and E Asia. There is a great need in Cambodia for an impartial source of news about the world, and a great deal of interest. The 30 min daily program will include 10 min of news and regular educational programs to fill the gaps left by 13 years of war. Sue Slayborn of RA's regional office, who visited Phnom Penh to prepare for the start of RA's service, was told that the word Khmer rhymes with "Lamar" as in Texas. The Khmer service will air at 0530-0600 on 17880 and 17670 kHz, and again at 1230 on 13755, 9770, and 7150 kHz. The first broadcast is timed during their traditional long midday break. Phnom Penh's open air markets display many cheap SW sets made in Eastern Europe. (Sue Slayborn and JM on RNMN 11/26).

AZERBAIJAN - From 11/26 Baku began a daily transmission to Europe in English at 1700-1800 on 6175 kHz. Azerbaijani radio has leased facilities from Moscow for 250K rubles a month. (WBI 12/4) R. Azerbaijan began broadcasting in EE from 1700-1800 on 11/26. The only freq heard so far, 6175 kHz, is buried under R. France International. The QRM is so severe that the ID cannot be copied. (BBCM on RNMN 12/10)

BELGIUM - Guido Schotmans posted this schedule of *Radio Vlaanderen International* on the Fidonet Shortwave Echo. Updated by Paul Brems, Brussels, Dec 13. 0000-0025 SS 9930 (293#) 13655 (225#) to Am; 0030-0055 EE 9930 (293#) 13655 (225#) to Am; 0500-0555 Dutch 1512 9925 (152#) to Afr, 0600-0655 1512 5900 (163#) 13675 (152#) to Eur/Afr, 0700-0725 1512 5900 (163#) 9905 (137#) 11695 (225#) to Eur/Oceania; 0730-0755 EE 1512 5900 (163#) 9905 (137#) 11695 (225#) to Eur/Oceania;

0800-0825 FF Su 1512 5900 (163#) 13675 (197#) 17540 (157#) to Eur/Afr; 0800-0825 Mo-Sa 1512 5900 (163#) 9905 (84#) 13675 (197#) to Eur; 0830-0855 GG Su 1512 5900 (163#) 13675 (197#) 17540 (157#) to Eur/Afr; 0830-0930 Dutch Mo-Sa 1512 5900 (163#) 9905 (84#) 13675 (197#) to Eur; 0900-1100 Dutch Su 1512 5900 (163#) 13675 (197#) 17540 (157#) to Eur/Afr; 0930-0955 GG Mo-Sa 1512 5900 (163#) 9905 (84#) to Eur; 1000-1025 EE Mo-Sa 1512 5900 (163#) 9905 (84#) to Eur; 1030-1055 FF Mo-Sa 1512 5900 (163#) 9905 (84#) to Eur; 1100-1200 Dutch 1512 13675 (197#) 17540 (157#) to Eur/Afr; 1200-1230 Dutch 1512 9905 (163#) 13675 (197#) 17540 (157#) to Eur/Afr; 1230-1255 EE Su 1512 17550 (84#) 21810 (293#) to NA/Asia; 1230-1255 SS Mo-Sa 1512 9905 (163#) 13675 (197#) to Eur/Afr; 1300-1330 Dutch Su 1512 17550 (84#) 21810 (293#) to NA/Asia; 1300-1400 Dutch Mo-Sa 1512 17550 (84#) 21810 (293#) to NA/Asia; 1330-1700 Dutch Su 1512 9905 (163#) 13710 (197#) 21815 (157#) to Eur/Afr; 1400-1425 EE Mo-Sa 1512 17550 (84#) 21810 (293#) to NA/Asia; 1430-1455 FF Mo-Sa 1512 17550 (84#) 21810 (293#) to NA/Asia; 1500-1700 Dutch Mo-Sa 1512 9905 (163#) to Eur; 1700-1730 Dutch 1512 9905 (163#) 21815 (157#) to Eur/Afr; 1730-1755 Arabic 1512 9905 (163#) 21815 (157#) to Eur/Afr; 1800-1830 Dutch 1512 5900 (163#) 15540 (157#) to Eur/Afr; 1800-1855 Dutch & FF Sa 9905 (137#) [Kroatii#] to Eur; 1830-1855 GG 1512 5900 (163#) 15540 (157#) to Eur/Afr; 1900-1925 EE 1512 5900 (163#) 15540 (157#) to Eur/Afr; 1900-2100 Dutch We/Sa 13680 (152#) to Afr; 1930-1955 FF 1512 5900 (163#) 15540 (157#) to Eur/Afr; 2000-2100 Dutch 1512 5900 (163#) 15540 (157#) to Eur/Afr; 2100-2125 Dutch Su 1512 5900 (163#) 15540 (157#) to Eur/Afr; 2100-2130 Dutch Mo-Sa 1512 5900 (163#) 9905 (197#) to Eur; 2130-2155 SS 1512 5900 (163#) 9905 (197#) to Eur; 2200-2225 EE 1512 5900 (163#) 9905 (197#) to Eur; 2230-2255 FF 9930 (293#) 13655 (225#) to Am; 2300-2400 Dutch 9930 (293#) 13655 (225#) to Am. #=degrees.

BOLIVIA - The following is via Dx Bolivia which used the following sources: Onda Corta, Pampas Dxing, Radio Panorama, Dx'ers Calling, DXO, Play Dx, Short wave news, Tropical Band Survey 92, Radio Nuevo Mundo, QSL Survey, Surical, WRTH LA NL, FT, DXSF, The Radio News:

Inactive: 3200 R. 9 de Abril, 3340 R. Viloco

Active: 3310 R. San Miguel, 3370 R. Florida, 3390 R. Emisoras Camargo, 3472 R. Padilla, 4183.21 R. 11 de Octubre, 4409 R. Eco, 4420 R Santa Rosa, 4435 R CVU, LV del Tropico, 4449 R. Frontera, 4471 R. Movima, 4530 R. Hitachi, 4540 R. Horizonte, 4552 R Difusoras Tropico, 4599 R. Villamontes, 4600 R. Perla del Acre, 4625 R. Emisora Agudulce, 4625 R. Dif. Machupo, 4649 R. Santa Ana, 4681 R. Paititi, 4712 R. Abaroa, 4739 R. Mamore, 4775 R. Los Andes, 4795 R. Nueva America, 4808 R. Dif. Libertad, 4829 R. Grigota 4845 R. Fides, 4855 R Centenario (La Nueva), 4864 R. 16 de Marzo, 4875 R. La Cruz del Sur, 4886 R. Sararenda, 4901 R. San Ignacio, 4924 R. San Miguel, 4939 R. Norte, 4945 R Illimani-inactive of this freq only, 4964 R. Juan XXIII, 4975 R. Maria Auxiliadora, 4982 R Minería, 4991 R Animas, 5004 R. Libertad, 5044 R. Altiplano, 5159 R. Galaxia, 5271 R. San Ramon, 5504 R. 2 de Febrero, 5580 R. San Jose, 5934.6 LV del Tropico, 5948.8 R. Pio XII, 5964 R. Nacional Huanuni, 6015 R. El Mundo, 6025 R. Illimani, 6085 R. San Gabriel, 6094 R. Cosmos, 6105 R. Panamericana, 6135 R. Santa Cruz, 6154 R. Fides, 9625 R. Fides, 9717 R. La Plata. (via Hans Johnson)

Radio Fides heard on new 9625 since 9/18 0515-0558* w/LA music & ID; also announcing 4845 & 6155; heard Friday & Saturday nights, but covered by CBC since the time switch in late October. (Ernie Behr, Kenora, Ontario) R. Fides, La Paz, 6155 kHz, heard in Quito with spots and music 0000-0015. (KMH/QLB/DXPL 12/12)

BOSNIA-HERZEGOVINA - R. *Bosnia-Herzegovina* has appeared on 6220 kHz with AM; reception is best with USB. It has been announcing phone numbers and asking for reception reports, but nothing in EE yet. Best reception in Europe is around 1700 just before European Christian Radio signs on. (JM on RNMN 12/10) A station heard on 6219.95 on 11/13 from around 2230 to past 2400, with a clear ID at 2300 as *Radio Bosnia Herzegovina*. Talks, plus mixed bag of E.European mx and western pops. Also heard on 11/14 with an ID around 2315, several mentions of B-H, ditto 11/15 at 2300 with ID, 11/23 at 2200. This one is pretty poor until around 2200, then it starts coming up and reaches decent level around 2300, with intermittent QRM on the high side. Beware Budapest which is on 6220.00 until 2155* and is stronger than "B-H." (Jerry Berg)

BOUGAINVILLE - IARN has not mentioned R.Free Bougainville since early November; if it has ceased operation they have yet to acknowledge it. (John Norfolk, OK)

BULGARIA - The Committee of Post Offices and Telecommunications of the Bulgarian Council of Ministers has proposed to cancel a 1986 agreement between Bulgaria and the USSR for construction of a medium wave station near Cape Kaliakra, to be used for Soviet foreign service transmissions. A new intergovernmental agreement would be negotiated. Moscow had granted an interest free 17,000,000 ruble loan for the construction. Completion would require another 40,000,000 leva. The committee proposed to contact other station, such as VOA, BBC, DW, etc, to see if they would be interested in completing the project. The proposal was accepted. (BTA news agency, Sofia, via WBI 12/4) [Both Russia and Bulgaria use the Cyrillic alphabet. That would put off anybody, except perhaps the FEBC missionary engineer in Korea who taught himself technical German while building the 250 kw transmitter on 1566 kHz from a gigantic Swiss Heathkit which arrived, without wire list, in 40 packing cases.--mf]

CAMBODIA - I noted with interest the item in the December LN that the *Voice of the National Army of Democratic Kampuchea* is still alive and well, so to speak. A follow up report for reception of 5408 kHz, while I was in Okinawa in 1989-1990, sent to the UN mission, produced the response, dated 7/24, "... the Voice of the National Army of Democratic Kampuchea has ceased broadcasting since last year." The letter was signed by Phobol Cheng, First Secretary. Looks like the "U.S. office" doesn't keep in touch with happenings in their "home office". (Mike Hardester, NC)

CAMEROUN - Sked given on QSL is as follows: Yaounde on 4850 at 0430-0650, 1630-2400, 6060 at 0650-1630. Douala on 4795 at 0430-0650, 1630-2300, 7250 at 0650-1630. Garoua on 5010 at 0430-0650, 1630-2300, 7240 at 0650-1630. Bafoussam on 4000 at 0430-0650, 1630-2300, 5955 at 0650-1630. Bertoua on 4750 at 0430-0650, 1630-2300, 7165 at 0650-1630. Buea on 3970 at 0430-0650, 1630-2300, 5005 at 0650-1630. (Jerry Berg)

CHINA - Three Chinese local station have made frequency changes. *Hulunbeier People's Broadcasting Station*, Hailar, has moved its Mongolian xmsn to 6080 ex 4750 kHz. [WRTH 92 says 2150-2400, 0330-0600, 0930-1500.] *Xilingol PBS*, Xilinghot, formerly irregular on 4950 kHz in Mongolian, is now consistent there. [WRTH 92 says 2220-0150, 0255-0600, 1010-1335.] *Xizang BC Station*, Lhasa, has added 4820 and 6200 kHz to its Tibetan service.

[WRTH 92 says 2300-0130*, 0330-0545, 1000-1545.] (Satoru Suga and Akira Yamanaka, ABI, on RJMR 12/6)

KPLA Radio, 770 kHz, in San Francisco, carries a *Radio Beijing* (China Radio International) program Monday-Friday at 1700-1730 (0100-0130 gm). (The Messenger, via WBI 12/4)

CPBS 1st Program operates from *1958 on 3220, 4460, 5320, 5880, 5915, 5955, 6125, 6180, 6750, 6840 kHz. The 2nd Program operates from *2058 on 5163, 6890, 5716, 7770 kHz. *Xinjiang PBS*, Urumqi, since 11/2 is in Chinese at +1150-1650* on 2560, 3960 (ex 7385), 4501, 6100 kHz; in Uighur at +1045-1650* on 3990 (ex 7195), 4735, 5800 kHz. *Gansu PBS* has been off the air on 4865, 6005 & 6155 since 11/2. (Tsutomu Kito, Japan)

C.I.S - Abkhazia is an autonomous republic on Georgia's Black Sea coast where rebels are fighting for full independence. BBCM has learned that a rebel *Voice of Abkhazia* broadcasts in Turkish on 1089 kHz and 41m Tues and Sat only. This is understood to be the rebels' only link with the outside world. BBCM asked through Media Network for help in tracing the sked. (Richard Measham on RNMN 12/17) [The Abkhaz rebellion is complicated by the fact that the republic's population is 17% Abkhaz, 47% Georgian, and 36% other. Abkhazia's seacoast is a tourist resort which drew many travelers from Russia last summer when the ruble was 100 to US\$1.--mf]

COLOMBIA - R. Macarena reactivated on 5975 kHz 11/8 (Klemetz Play-DX 717)

Rdif Nacional on new 9685 kHz since 11/11, from 2300 LA music, ID & NA to 0330*; still there 11/22, but not heard since. Also tested 9655 in early September; ex 11825. Program sounds like a separate shortwave service, no longer a relay of the domestic program. (Ernie Behr)

La Voz del Llano, Villavicencio, 6115 kHz with talk at 0615; lots of QRM [from Peru on 6117?]. (KMH/QLB/DXPL 12/12) [Passport 93 says 0900-0500.--mf]

CROATIA - *Croatian Radio*-Studio Zagreb is currently heard on 13830, 9830, 6150 & 5025 kHz. 6150 is heard 24 hrs. 5025 is only heard in the evening & night, while 13830 & 9830 are noted daytime only. (BBCM monitoring research via WBI 11/27)

R. Zagreb appeared on new 5025 kHz 12/5; EE news is just after 2200 // 1134 kHz MW. 5085 and 6210 kHz were not heard 12/5 or 12/6. 5025 suffers from strong utility QRM. (Julius Herrmanns, Holland, on RNMN 12/10). 6210 has been replaced by 6150, which is hard to read in Western Europe. (JM on RNMN 12/10) Zagreb's 60m xmtr has moved to 5020 ex 5025 kHz to escape utility QRM; heard in

Holland at 2330. (Julius Herrmanns, Holland, on RNMN 12/17)

Eric Beauchemin returned to Hilversum 12/7 after an assignment in Zagreb. He said the only signs of the fighting near or in Zagreb now are refugee camps outside the city and a tremendous crowd of idle Muslim refugees near the mosque, talking and guarding their belongings because they have nothing else to do. Once outside Zagreb traffic drops off sharply and the only other vehicles are UN Protection Force vehicles.

Croatian Radio is trying to build up an audience abroad with its own SW transmitters and with time purchased on WHRI, Noblesville, IN.

EB: Croatian Radio is in downtown Zagreb, within sight of the main square. It's quite a small operation, at least in the building that domestic and foreign radio news and domestic TV broadcasts come from.

JM: Vlado Lishek is director of Hrvatska Radio's international service.

VL: There are two types of broadcasts, local and directed at the North American continent and any other continent that can pick us up. The local EE is broadcast four times a day. The most interesting one for foreign journalists is at 2300. The SW program for North and South America is part of a program consisting of Croatian and EE news, and if we can include an announcement or two, we're happy. Because it's financed by the American Croats and [time on 2 WHRI transmitters] costs, they claim, about \$25,000 a month, it has been reduced to 30 min.

JM: The program is fed from Zagreb to WHRI simply over the phone. Sixteen people work in the international service, five or six of whom are involved with EE segments.

VL: When Yugoslavia was one country there was a Radio Yugoslavia. The Serbs in Belgrade confiscated everything that was Yugoslav. So R. Yugoslavia still exists in Belgrade. It's got excellent facilities, excellent transmitters, but we have no use for those, so we have to start from the beginning.

JM: Most of the programming is devoted to the war in Bosnia-Herzegovina. Croatian Radio has two reporters in the war zone. They say they get response.

VL: A lot of response from the North American continent, especially from Canada, but also from the U.S. We also receive a lot of response from fanatical individuals around the world, amateurs who pick us up. Every week we receive about 10 or 15 letters or phone calls from the U.S. and Canada.

EB: Are there any plans to increase the transmissions?

VL: Of course there is a plan. Croatia would love to have its own World Service but, naturally, because of the situation, Croatia can't

have it now. We don't know when we'll be able to do that, but the plan is there.

JM: EB reports that the media in Croatia itself is dominated by war news, most of it very graphic indeed, with pictures of dead and mutilated bodies filling the screens on a daily basis.

EB: If you turn on the TV there are pictures all day long of the war, and you see the most gruesome things. What you see here in Europe or the U.S. is not in any way comparable to what is being produced there and shown on TV.

JM: The United Nations is trying to do a job inside the two countries with its own five-minute program broadcast Mon-Fri. Lina Yacoumoupoulis is the producer of the U.N. Protection Force broadcasting operation.

LY: We broadcast in both Croatian and Serbian because we're trying to bring the two countries together. We thought broadcasting the same material from the two capitals might be a way of reconciling the two countries together.

EB: Do you have language problems? Do you translate [UN officials' EE or FF] into Serbian and Croat?

LY: We thought translations would be in Serbo-Croatian when we first arrived here. Then we heard, especially at Zagreb Radio, that they would have nothing like that to do with Serbian, they would have purely Croatian. And we realized we were dealing with another two languages, even though they were at that time very similar. In the last eight months the two languages, Serbian and Croatian, have become increasingly different as each country is nationalistic and is trying to prove that it is terribly different from the other. (RNMN 12/10)

CUBA - *Radio Havana* on 6010 in English at 0042. (Terry Krueger in DXSF, via Hans Johnson)

CZECHOSLOVAKIA - *R. Czechoslovakia International* has EE from 0400-0430 on 11985 and 13715 kHz; 0700-0730 on 11990 with good strength. (AC on RNZI 11/24)

DENMARK - Erik Koie at *Radio Denmark* has advised WRTH of the following frequency changes made on December 1st: 0000 9645 changed to 9675; 0100 9565 changed to 9560; 0400 9560 changed to 9565; 1500 11870 changed to 11850; 1600 & 1700 15330 changed to 15335; 2300 9645 changed to 9655. The first half hour is Radio Norway and the second half hour is Radio Denmark. (Andy Sennitt on Shortwave Echo)

DJIBOUTI - *RFI* is having a charter prepared for the company which will operate its relay base on the Horn of Africa. Other work on the project is at a stand still because of a war between the Afars and Issas. Word from the

French embassy is that the outlook for peace is uncertain. The new station will serve India, East Africa and Arabia. (Daniel Oidee, RFI, on RNMN 11/26)

DOMINICAN REPUBLIC - *Radio Santiago* with a much stronger signal since 11/2, from 2340 with Spanish talk & music. GMT 11/4 had relay of VOA Spanish election coverage to 0400 f/o.

Radio Cima Cien, Santo Domingo, on 4959.86 since 11/6, down from 4962, since 11/6 from 0500 w/merengue music past 0600. (Ernie Behr)

ECUADOR - New address for *ERPE*, 5010.3 kHz, is Casilla 06-01-693 RtoBamba. (Klemetz in Play-DX 717, via Hans Johnson)

Radio Catolica on new 3360 // 5040 at 1045. (Dave Valko via Hans Johnson)

R. Federacion, Sucua, heard on 4961 kHz with mixture of SS and possible Shuar at 2315. (KMH/QLB/DXPL 12/12)

La Voz del Napo, 3280 kHz, heard almost every night with school information and other announcements. (KMH/QLB/DXPL 12/12)

FRANCE - *RFI* is broadcasting to Aus/NZ in FF from 1030-1130 on 15285 via Beijing. The fall sked says RFI is now using 54 freqs and eight relay bases. (AC on RNZI 11/24)

RFI hopes to get a 6.3% increase in its 1993 budget. If it goes through, the increase will let RFI add Laotian and Cambodian making 16 languages in all. English will be increased from 150 to 180 minutes daily. The special French to Africa may jump from 6 to 8 hours. RFI is looking for placement opportunities in Eastern Europe for its satellite feeds. Its joint venture with the CTK news agency in Prague seems to have gone sour and might close by 12/31. The outgoing Czechoslovak government rammed through a law forbidding the news agency to own two different forms of media, to take effect before Czechia and Slovakia split 1/1. RFI will do its best to stay in Prague but the exact setup is uncertain. The outlook for a relay base in Thailand is brighter after misunderstandings between the French and Thais were sorted out. RFI began a 24 hr French service on 92.8 MHz FM in Phnom Penh, Cambodia, on 11/18. (Daniel Oidee, RFI, and JM on RNMN 11/26)

GEORGIA - *Georgian Radio* on new 9565.3, *1600 English, 1630-1658* Russian. Also on 11805.3 from *0600 English, 0630 Russian to 0658*; both strong 11/19. (Ernie Behr)

GUAM - *KSDA* was temporarily silenced by Typhoon Gay because of concerns about damage to antennas during the high winds. One transmitter was back on the air the next day

while another antenna was being repaired.
(RNMN 12/3)

GUINEA - RTG Conakry on 7125 *0556 IS, NA & Koran, 0620 local music, 0645 French news; strong 10/26 via new 100 kw transmitter in Sofoniya; also heard in December till 2400*.
(Ernie Behr)

HONDURAS - HRXX, La Voz de la Mosquitia -- I recently received a reply to my letter asking this station about their return to the air. Larry Sexton had this to say:

Our facility is located on Tansin Island on the campus of the Miskito Baptist Institute. Our transmitter is an old Johnson Viking with emphasis on the work "old." We reach our immediate area however, and that is the main target. Our power source is a Detroit diesel 20 KW. Our fuel comes by boat from 300 miles away and then crosses to our island in 60 gal drums via dugout canoe. Therefore, in the interest of fuel conservation, we only broadcast 4 hours daily. We begin at 23 hours UTC with 1 hour of Spanish programming, followed by 2 hours in the Miskito language, concluding with English. Our local time is the same as CST.

Personally, I'm an independent Baptist missionary, training Miskito Indian men for the ministry. We have 14 students and 2 teachers. Our area is remote, no roads come here. I fly a Cessna 180 ministering to the villages.

We have a military surplus T-368/URT transmitter which we hope to install shortly after the first of the year. Sometime in 1993, we hope to install a back-up generator and build up our diesel reserves. Then we may begin some broadcast in the morning, but that will probably be exclusively in the Miskito language.

The answers to your 4 questions are below:

1. We were off the air because of technical problems and being so remote, it just takes a long time to get parts and assistance out here.

2. We have been unsure of whether we have a suitable English audience and if it is wise to continue. Your letter may help us to decide.

3. The Viking is transmitting at 100 watts - the T-368/URT will be 500 watts.

4. For the present, English programming will be aired at 0200 UTC.

Larry also mentions that the L. Wilkinson listed in the WRTH and PWBR is no longer with the station. (Hans Johnson)

R. Luz y Vida, 3250 kHz, heard at 0630.
(KMH/QLB/DXPL 12/14)

HUNGARY - Radio France Intl via RB until 3/27 all in French 0500-0600 on 9845, 11850; 0600-0700 on 13660, 15530; 0700-0800 on 17690; 1600-1630 & 1700-1800 on 15460 (Nov BDXC Communication via DXLD 38, via Hans Johnson)

INDIA - All India Radio's service to the Pacific in EE is at 1000-1100 on 15050, 17895 and 21735 kHz. 17387 kHz has been dropped.
(AC on RNZI 11/24)

Two new 250 kw **AIR** transmitters at Bambolim near Goa have begun on-air tests between 0400-1230 on 5900, 7200, 9650, 11915, 15145 and 17750 kHz with continuous music or parts of AIR's Hindi service. No IDs mentioning the Goa site are broadcast. The transmitters are nearly finished, but will not be commissioned until new studios are built in Bombay. A *commercial* SW operation based in Bombay is to serve listeners in the Persian Gulf, East Africa, the Far East and S. Asia. Sri Lanka B/c Corp. has had a very popular commercial operation for several decades; it has a large following among Asians working in the Middle East. AIR may want a piece of this market. (Flavio Rapozo, Goa, on RNMN 11/26)

Four new 500 kw transmitters have been built in Bangalore to supplement 2 x 500 kw senders already in use. Engineers are still working on the antennas. (Flavio Rapozo, Goa, on RNMN 11/26)

A new SW transmitter at Trivandrum in the southern state of Kerala is testing on 5010, 6085 and 9650 kHz at any time from 0130-1600. 6085 is excellent in Sri Lanka at 0230 with Indian music and occasional announcements in EE. (VG on RNMN 12/3)

A big MW station in South India to broadcast to Sri Lanka became a priority item after the Indian peacekeeping force landed in Sri Lanka three years ago. A 200 kw transmitter at the southern tip of India, the ideal place to broadcast to Sri Lanka, has appeared on 1053 kHz. Reception is really staggering in Colombo. (VG on RNMN 12/3)

INDONESIA - Radio Republik Indonesia home services in the 90m band on 3265, 3285 (Kupang) and 3395 kHz are being heard during the NZ summer. Kupang signs off at 1600. (AC on RNZI 11/24) [Kupang freq given as 3385 on RNMN 12/10; WRTH says 3385. AC reads his broadcast scripts from Braille and occasionally has trouble reading individual digits.--mf]

The **RRI** 250 kw transmitter at Parangserim is putting good signals into the eastern U.S. on 9675 kHz. An English mailbag program is heard at 2030 Sunday. It is also the strongest 31m signal in Sri Lanka at the start of its broadcast to Europe at 1800 // 11752. (Tom Sundstrom and VG on RNMN 12/3).

RRI has a new 31m freq, 9525 kHz, for Programma Nasional, // 9680 and 4777 kHz, heard best in Sri Lanka from 1300-1610. (VG on RNMN 12/3) English is on 9680 & 9525 Tuesdays at 1230-1259. 4777.1 kHz joins at 1250. (Juichi Yamada, Japan)

Voice of Indonesia on new 9675, 1730 Spanish, 1800 German, 1900 French, 2000-

2100* English; fair since 12/5, but often weak or no audio; reported as 250 kw. (Ernie Behr)

RRI Jamb on new 4925, ex 4927. (Gifford Pinchot V D'Angelo Kohlbrenner, Valko, Johnson) Since 11/14 on 4925 at +1100-1400+. (Tsumoto Kito, Japan)

A letter from **RRI Samarinda** says the station operates daily on 9615 kHz at 2300-0210 & 0500-0915; on 6135 at 0200-0505; on 1215 at 2100-2315 & 0900-1606. It's heard in Japan on 9615 at 0800-0915* after local news at 0900. (Juichi Yamada, Japan)

IRAQ - Radio Iraq International sked: Arabic 0015-0315 on 15180 to SA; 0700-1000 on 13680, 15400, 17720, 17740 to North Africa; 1900-2200 on 15210 to Europe. English 1400-1700 on 13680 to East Asia; 2200-2400 on 15210 to Europe. Russian 1630-1730 on 6105 to Russia. Turkish 1900-2000 on 7200 to Turkey. (Al-Thawrah, Baghdad, via WBI 12/4)

Republic of Iraq Radio (domestic service) sked: 0255-0020 in Arabic on 7180, 7420v (7390-7450), 9725v, 17720 kHz. (WBI 12/4)

(Clandestine) **"The Voice of the Iraqi People, the Voice of the Democracy and Progress"** is being heard in AA at *1700* on 3930 and 7060 kHz. (Tariq Mustafa Zidan, Cairo, on RNMN 12/17)

ISRAEL - Kol Israel has advised that they require IRC's with reception reports, and four IRC's if you wish to receive their sked over a 12-month period. EE at 0500-0515 is on 9435; at 1100-1130 on 17545; and 2000-2030 on 9435 kHz again. (AC on RNZI 11/24)

ITALY - European Christian Radio, Ravenna, is heard on 6220 kHz at 1720 with an interval signal and English announcement. The station is asking for mail to an address in Austria. (AC and JM on RNMN 12/10)

Marconi Radio International, Taranto, 11390 kHz, marked its seventh birthday Sun 1/3/93 with a special broadcast from 0930-1230. The station began on Jan. 4, 1986 with the goal of being a radio for DXers. A special QSL letter was being considered. Listeners are invited to report to: Antonello Napolitano, Via Argentina 68, I-74100 Taranto. Return postage, either US\$1, 1000 lira, or one IRC is essential. (A. Napolitano on RNMN 12/17)

JAPAN - Ms. Hiromi Ito, presenter of **Radio Japan Media Roundup and Hello** from Tokyo, returned to work 11/30 after surgery but her tonsils did not. Her voice is unchanged. (Mike Fern-CA)

KIRIBATI - Radio Kiribati first noted 11/30 on new 17440.1 kHz, 0113-0137, with a poor signal at 0113 with what sounded like an English newscast. I checked BBC and R. Australia, but this was not a // relay of news. YL in

Kiribatese language at 0120; pop music at 0123. Possible mention of Kiribati at 0125 and into distinctive "island" music. Announcements by YL 0130, followed by old 1950's style ballad. Quick R. Kiribati ID in accented English, with possible mention of "meter band". Between 0125 and 0133, the signal strength sometimes rose from poor to fair. Rapid fade-out by 0137. (Guy Atkins) R. Kiribati has made minor changes to its sked; heard in NZ at 2330, 0600 and 1700. 0600 with BBC news is still best in NZ. (AC on RNMN 12/6)

KOREA (North) - (Clandestine) Voice of National Salvation - replies to reception reports have been received from Kuguk Chonson (a newspaper) Amatsu Bld 2-1, Hirakawa 1-chome, Chiyoda-ku Tokyo, Japan. (via Hans Johnson)

KOREA (South) - Radio Korea on new 11945 & 15155 from 0600 in English; very strong since 11/5. (Ernie Behr) RK now has English at 0600-0700 & Korean 0700-0800 on 7275, 11945 (ex 11810), 15155 (ex 15170). (Tsumoto Kito, Japan)

KOREA (Clandestine) - The Voice of the People new sked is 0300-0430 on 6518 & 6600; 0600-0730 & 0830-1000 on 6600; 1400-1500, 1530-1700 & 2000-2130 on 3912; and 2300-0030 on 6518 & 6600. (Tsumoto Kito, Japan)

LAOS - Lao National Radio heard on new 5980 // 6130 at 0030. (BBCM via Krone/AWR via Nov WDXC Contact, via Hans Johnson)

LESOTHO - The BBC relay address is c/o LNBS, P. O. Box 552, Maseru 100. (Hattan, Nov WDXC Contact, via Hans Johnson)

LIBERIA - ELBC, Liberia BC System, broadcasting in support of ECOMOG peace-keeping forces in Liberia, operates 0650-1900 on 7275 kHz in English & local languages. (WBI 12/11)

LITHUANIA - R. Centras had to cancel its 11/28 broadcast on 9710 kHz because the Sitkunai transmitter had cut back its sked to 1900-2300. It wasn't known in early December whether the transmitter would be available Dec. 26. 666 kHz MW is silent 2300-0400. Both cuts were made because of a national energy shortage. (Sigitas Zilionis, now a Lithuanian radio inspector, and Peter Hallam, Ireland, on RNMN 12/3) [R. Vilnius said 11/29 that the energy shortage affects hot-water supplies.--mf]

R. Gintines Svturys (Homeland Lighthouse), for fishermen in Bothnia Gulf, on 9710 at 0200-0230 Sat only. Report to Box 512, Klaipeda 5802. (Rudnev in ADXN Oct 92 via Play-DX 715, via Hans Johnson)

R. Vilnius International began a second English transmission for Europe at 2000-2030 on

666 and 1557 kHz MW and 9675 kHz SW. The 31m freq is covered in Hilversum by a strong signal from the Voice of Indonesia. (JM on RNMN 12/17)

MADAGASCAR - *Radio Hery Velona* [Active Forces Radio] started 11/23 to broadcast on shortwave, to allow coverage of the country. The station formerly broadcast on VHF/FM only. (Radio Madagascar, 11/23, via WBI 11/27) No mention of frequencies. [df]

MALAYSIA - Every year in the late fall or early winter R. Malaysia Sabah at Kota Kinabalu on 4970 kHz extends its SW sked to 1700. With winter conditions in Europe this transmitter should propagate almost world-wide. (VG on RNMN 11/10)

MEXICO - *R. Mexico International* heard with clear ID at 1300 11/24 on 5985 kHz. Apparently an irregular place-holding operation like XEWW and many other historic Mexican powerhouses. (Gigi Lytle, TX, on RNMN 11/26)

MONACO - TWR Monte Carlo is well heard in NZ with EE opening on 9480 kHz. (AC on RNZI 11/24)

NETHERLANDS ANTILLES - *Trans-World Radio Bonaire's* SW services will close for good on July 1, 1993, after 29 years of broadcasting. TWR Bonaire's SW and MW services will be cut back starting Jan. 3. The SW service will operate six hours per day per transmitter until July 1. English is scheduled 0300-0400 and 1100-1230. The 500 kw MW transmitter on 800 kHz will remain active after July 1 because a recent survey has demonstrated a wide audience for it. SW freqs are not expected to change in 1993. MW skeds will be three hours shorter.

On July 1, TWR Bonaire will launch its satellite-fed network in South America, which is expected to have 100 outlets in major cities by then. The net is ultimately expected to reach 300 placement outlets. TWR Bonaire's changes are in line with TWR's statement of purposes and are "change with purpose," McDaniel Phillips told TWR's staff the week of 11/23.

Financial conditions dictated the shift to satellite operations. TWR Bonaire has three major sources of income: (1) general or direct giving to TWR HQ in North Carolina; (2) missionary support, under which TWR staff members are supported individually by annual contributions from churches and church members; (3) by far the largest, time sales to radio broadcasters and program producers. Since MW is TWR's principal outlet in the Caribbean, income from other broadcasters has not paid for shortwave. SW operation has been financed out of TWR's general giving. Since

general giving is not now enough to sustain SW, and since broadcast technology is changing, TWR had to ask whether it should put money into a technology that may not attract large audiences 5, 10 or 15 years from now. "I have been looking at statistics and surveys for several years now indicating that in this part of the world, SW is on the decline," Phillips said. "You marry that to the financial situation, and it calls for change. We are all excited" about the change to satellite, he said.

Before TWR's U.S. directors made their decision, they commissioned an audience survey in Venezuela (pop. 18 million) from Bob Fortner, an experienced audience researcher who has worked for BBC, VOA and Radio Netherlands. He found that TWR's medium-wave transmitter had a regular listenership in Venezuela alone of 1.36 million. This was divided as follows: 217,000 listeners to EE programs, 137,500 to PP, and over 1 million regular listeners to SS. The difference is accounted for by persons who listen to two languages. [The inference is that MW has equivalent audiences in other Caribbean countries.] The audience for SS on SW is much smaller. The MW programming strategy will be revamped in light of the survey results. "We think MW is going to be around for a long time," Phillips said. (McDaniel Phillips and Chuck Roswell on Bonaire Wavelength 11/28)

The old 250 kw transmitter will probably be scrapped. The 50 kw transmitter may be moved to another TWR site, but not immediately. (Chuck Roswell on RNMN 12/3)

Bonaire Wavelength will continue until 7/1/93 at 1130 Sat and 0330 Sun, and will carry new developments as announced to TWR staff.

TWR Bonaire's last SW QSL will be a full-data card with the artwork from the November Journal cover. Minimum requirements for QSL's are: Date and Time, including start and finish times, preferably in UTC; Frequency (within 50 kHz); Proof of reception: List some distinctive items over a period of 15 minutes. "Music, news, religious talk" are insufficient [and indicate a head SIO of 252-mf]. Word-for-word reports are not wanted. SINPO code should be used for reception conditions. IRCs and mint stamps are not required, but are appreciated. Bonaire on 800 kHz will continue to confirm complete accurate reports. Reply is by airmail.

"Please express my thanks to the SWL/DX community for their support of TWR-Bonaire for what will be 29 years of SW broadcasting." (Chuck Roswell via mf)

NEW ZEALAND - *R. New Zealand International* conducted a freq test 11/28 from 2100-0659 on 15120 kHz in anticipation of propagation changes next winter. (Tony King on RNZI 11/24)

RNZI made mid-season sked changes on Mon 12/13, as follows: 1650- 1850 on 9675 kHz; 1850-2138 on 15120 kHz; 2158-0400 on 17770 kHz; 0400- 0700 on 15120 kHz NF; and 0700-1210 on 9700 kHz. (AC on RNMN 12/10) RNZI's late night sporting service (for overseas cricket and football) has moved from 9505 kHz to 9510 kHz. (JM on RNMN 12/10)

NORWAY - Radio Norway International will drop its Saturday (target date) EE programming on 2/1/93. Grundl Kraus-Dahl, an EE producer at RNI, provided this update:

GK-D: The decision to withdraw the financial support from the Foreign Office has not been reversed in spite of massive support, I must say, from listeners all over the world, for which I would like to thank [the writers.] The fact remains that we will have to cut down by half as from Feb. 1. Our Sunday xmsns will be kept.

JM: How are you managing to keep one edition going a week?

GK-D: We will have to make our total budget last also for the EE program. Our main activity, programming for Norwegians abroad in Norwegian, will have to be cut.

JM: Currently the NRK is financed by the license fee, and it's reviewing its program output. However, Olympics are coming up in Norway in 1994 [as heard]. Surely the Norwegian government doesn't want to turn off its major radio service to the world just before a major sporting event.

GK-D: That's what we think too. We could say that that's an additional reason why we are anxious to up the EE service and to keep contact with our many listeners abroad. During the actual weeks of the Olympics I expect that we will be broadcasting in EE more frequently than we do now. (RNMN 12/10)

The Democratic Voice of Burma, transmitted from Norway on behalf of the National Coalition Government of the Union of Burma, announced at 1430 11/23 that it would change from 17840 to 15140 kHz for its 1430-1520 broadcast, from 11/26. (WBI 11/27) Signals are fair to good in Kiev with QRM from DW on 15145 kHz. (Constantin ?Kusi, Ukraine, on RNMN 12/17)

OMAN - Radio Oman sked: in Arabic at 0200-0400 on 6085, 7230, 7270 kHz; 0400-0600 on 7270, 9735; 0600-0800 on 9735, 11890; 0800-1200 on 11890, 15375; 1200-1400 on 7230, 11890, 15375; 1400-1600 on 7230, 9735, 11890; 1600-2145 on 6085, 7230, 9735 kHz. (WBI 12/4) I think I see some frequency management there! [df]

PAPUA NEW GUINEA - The New Guinea stations on 90m (*R. West Sepik*, 3205; *R. Morobe*, 3220; *R. Gulf* on 3245 and right up the band) are putting very good signals into Sri Lanka. The best time to listen is near sunset in

South Asia, 1230- 1300 UTC. (VG on RNMN 12/10)

PERU - New address for *R. Lider*, 5339 kHz, is Jiron Huanuco 2361, Cajamarca. (Klemetz Play-DX 717, via Hans Johnson)

R. Horizontes, 5008 kHz, also has a new address: Ap. 12, Chachapoyas, Amazonas. (Pavanello in Play-DX 717) The station had been testing using a Peruvian-made 5 kw transmitter. It is awaiting official authorization to use the assigned frequency, starting in January 93. The station is owned by the Archbishop of Chachapoyas. (D'Amico in P-DX 715, via Hans Johnson)

Radio Andina reactivated on 4995.8. (GP V)

Radio Universal, 6093v, left the air 1033 gmt 12/12; not noted since. (GP V)

R. Emis. Orion Huaca Huamalies, in the Andres Avelino Caceres region, is a new station on 4927 kHz. (de Salas in Onda Corta in en el aire via DXSF, via Hans Johnson)

R. Atlantida, Iquitos, 4790 kHz, heard at 2230 with reports of municipal elections. (KMH/QLB/DXPL 12/12) [Passport 92 says 0900-0400.-- mf]

RUSSIA - WRTH has received an official winter sked from *R. Moscow*, but some of the listed freqs might be hired out to other operators before the W93 season ends. As of 11/25 Olle Alm in Sweden was still checking actual frequency usage against the official sked. WRTH hopes to publish a better site-by-site list with program details as well. WRTH 92 had an official sked and a monitored sked, with lots of differences between them. This year the staff has had more time to reconcile the differences. (Andy Sennitt on RNMN 11/26)

In the RMWS 11/21 Joe Adamov noted that *Radio Moscow* now broadcasts in only 43 languages, compared to the 67 they used to broadcast. He said the number of hours on the air of the foreign service has been cut by one-third, and that they've lost many of the transmitters in Russia and the former republics, as well as Cuba. WBI notes that the comparisons are to some five to seven years ago, and that RM's output is still around 1110 program hours weekly, and some 13230 frequency hours weekly, compared with VOA's 1287 and 6783 program and frequency hours. (WBI 11/27)

Radio Moscow World Service in EE heard opening on new 9540 kHz at 0800 12/13 with very good signals, possibly for NA; not in the 11/1 sked changes. (Mike Fern--CA)

The French service of *R. Moscow* announced 11/23 it would include religious programs: 1345 Tuesday Evangelical Media-Communication; 1415 Wednesday "Impact of the Evangile"; 1915 Sunday "Central Africa Mission". (WBI 12/4)

The Ethiopian opposition radio "*Horizon - Voice of Ethiopian Patriotism*", which broadcast via R. Moscow, was last heard 1530-1600 11/22. On 11/25 & 29 R. Moscow's Amharic service lasted an hour, instead of carrying the VOEP at 1530, as it had done on Sunday & Wednesday between 10/4 & 11/22. (WBI 12/4)

Radio Ala, Moscow, moved from 3995 to 5900 kHz, where it should be operating 24 hrs. Reports are requested to P. O. Box 159, Moscow 125 047, Russia. ("DX club" program on Voice of Russia, via WBI 12/4)

Radio Pamyat now airs only once a day, at 1430-1600, and only on 7230 kHz omnidirectional. ("DX club" program on Voice of Russia, via WBI 12/4)

Shortwave transmissions from *Radio Polis* in St. Petersburg and *Radio Shark* in Ufa have disappeared from the air. ("DX club" program on Voice of Russia, via WBI 12/4)

Starting Jan. 1, *Radio Netherlands* will hire 17 freq-hours per day on R. Moscow transmitters. Most xmsns will parallel existing broadcasts, except 1030-1125 in EE to the Far East via Russia only. The tentative sked issued 11/26, some freqs subject to last-minute revision, follows: 2330-0025 in EE to SoAsia via Chita on 11675 kHz; 0930-1125 to E and SS Asia via Irkutsk on 9810 kHz and to the Far East via Petropavlovsk on 7260 kHz; 1130-1325 in Indonesian via Irkutsk on 9810 kHz; 1330-1425 in Du to S and SE Asia via Irkutsk on 9810 kHz and Petropavlovsk on 7260 kHz; 1430-1525 in Dutch to S. Asia via Chita on 7115 kHz; A new program for Dutch soldiers serving in Cambodia with the UN truce force is set for 0800-0925 Sun only via Chita on 15210 kHz. [See Uzbekistan for more] RN will issue a special QSL card for the Russian [and Uzbek?] relays; more to come in December. (JM on RNMN 11/26) Then some last-minute changes were announced 12/17. The 0930-1125 broadcast in EE for the Pacific was rescheduled on 7260 and 9855 kHz. Media Network is at 0952 Thurs. 11675 kHz at 0030 may yield to a lower freq for more reliable reception. (RNMN 12/17)

The *BBC* is now broadcasting 24H on 1260 kHz in Moscow, having taken over the xmtr of *Radio SNC*, run by a rock promoter, which ran into financial difficulties. (Richard Measham, BBCM, on RNMN 12/17)

The *University Network* relays via Samara on 21845 kHz to India, and via Novosibirsk on 15315 kHz for China and the Pacific, are heard in Japan from 0400-0800. The satellite relays are not in sync and do not seem to be carrying the same programs. (Yoshinori Kato, Shigenori Aoki and Tetsuya Kondo on RJMR 12/6) [This confirms a sked which Dr. Scott only hinted at in his 11/1 broadcasts. If the separate feeds continue it's a major break with Dr. Scott's SW relay practices, which emphasize the seven-day-

a-week live broadcasts at 8 p.m. Pacific Time.--mf]

R. Nadezhda, Moscow, changed its sked again 11/1. The winter sked follows: 0800-1100 on 630 kHz MW and 15460 kHz; 0900-1100 on 6050 kHz; 1100-1400 on 7125, 9525, 11665 and 11705 kHz; 1500-1800 on 1440 kHz MW, 6110, 7235, 9580 and 17675 kHz; 1530-1800 on 9490 kHz; 2000- 2300 on 1215 kHz MW, 5915 and 6110 kHz SW. The mail address for R. Nadezhda (Radio Hope) is Ul. Pyatnitskaya 25, Moscow 113326. (Yoshinori Kato and Shigenori Aoki on RJMR 12/6) [This confirms a hunch of mine that Russian domestic and external SW outlets "in Europe" change their skeds the first Sunday of every odd month because of propagation conditions in the Russian Arctic and subarctic.--mf]

R. Alpha and Omega has a new sked as of 11/1. 9795 kHz has replaced 9695 kHz from 1500-1600. (Kato and Aoki on RJMR 12/6)

Inflation may have outstripped the Russians' capabilities to print stamps and modify postage meters. I have received two pieces of mail from R. Moscow postmarked in late November which were "hand franked". A simple rubber stamp which said "P. K. T.P.", in effect "___ rubles ___ kopeks tax paid" had the numbers written with pen and ink and countersigned with an initial. The ruble was trading at 4500 to the dollar in early December. The airmail postage for *Radio Moscow's* sked, frequency book and two letters (120 grams) was 750 rubles.--mf]

Hans Johnson passes along the following:

Radio Vedo schedule (Russian) 0500-0900 Sa/Su 5915, 7125, 7185; 1500-1900 on 7185, 9655, 11760, 13710. (Rudnev in DX Moscow via Play DX)

Radio Redonezh (Russian) 1600-1700 on 9695. (Rudnev in DX Moscow via Play DX)

Radio Alpha and Omega (Russian) 1500-1600 on 9695. (Rudnev in DX Moscow via Play DX)

Radio Nadezhda (Russian) 0800-1100 on 6090, 15460; 1100-1400 on 9725, 9770, 11665, 11805; 1500-1800 on 7310, 9490, 11800, 12005; 2000-2300 on 5915. (via Klepov in Dx Moscow via Play DX)

Radio Polis 0430-1700 6045 qsl via Mrs. Pavorskaya, Ligovski pr., 253, kv. 2, 192007 St. Petersburg Russian but announcements in English. (via Klepov in Dx Moscow via Play DX)

FEBE Russia can now be noted on 6035 at *1230-1730* in Chinese, since 11/4. (Tsutomu Kito, Japan) *FEBE Russia*, Khabarovsk, is being heard in Japan from 1230-1730 on 6045 kHz NF with expanded CC programming. The IS is "What A Friend We Have in Jesus" on chimes. (Yoshinori Kato on RJMR 12/13) [Fair

signals in CA at 1330 12/15; open carrier 1400-1430 - mf]

Radio Irina, the Moscow-based Vietnamese freedom station heard 1400-1500, changed freq 12/25 to 9550, ex 9735 kHz. (Richard Measham, BBCM, on RNMN 12/17)

RWANDA - R. Rwanda on 3330 kHz is putting excellent signals into Sri Lanka around 1615 with news in EE. This is just one of many signs of fantastic reception on the low freqs which will improve as the sunspot minimum approaches. (VG on RNMN 12/10)

SINGAPORE - Singapore home service has EE news at 1400. Both 5010 and 5052 kHz are heard well in NZ. (AC on RNZI 11/24)

SOUTH AFRICA - Channel Africa has excellent signals in NZ afternoons local time, 0200-0400 on 11745 kHz; 0300-0500 on 7270, and best at 0400-0600 and 0600-0700 on 15430 kHz. Opening at 0400 on 19m with news in EE and spots advertising jobs at the station. (AC on RNZI 11/24)

SOMALIA - The U.S. forces in Somalia began broadcasting in Somali for a domestic audience on MW from the troop transports. A 24H operation on shore will carry disaster relief information, like the "Radio Recovery" operated in Florida after Hurricane Andrew. There are no plans to set up a broadcast service for U.S. troops, because of the short duration of the intended operations. (JM on RNMN 12/10) Both native factions in Mogadishu have their own BC stations; no freqs given. (Los Angeles Times 12/10)

IARN (International Amateur Radio Network) is looking at setting up a station in Somalia as a free-access common ground where warring factions can meet & where all sides can use the facility to express any point of view. Sam Voron, of Australia, proposed the idea to the IARN BoD 11/6. (IARN bulletin, via Glenn Hauser on World Of Radio, via John Norfolk, OK)

SRI LANKA - Trans-World Radio has cured most of the bugs in the 12.5 kw transmitter and began tests on 6035 kHz on 11/25. The best time to listen is *1300-1530*. An agreement between SLBC and TWR covering the 100 kw transmitter now on order is ready for signature at any moment. (VG on RNMN 12/3)

SUDAN - v/s is Mohammad ElMahdi Khalil, Frequency Guide Program(mer), English Service, Omdurman, Sudan. (Johnson)

BBCM discovered that **Republic of Sudan Radio** has reactivated 4994 kHz with Arabic at 1600-2300. The German ambassador to Sudan, a WRTH reader, tried to learn more from the Sudan government but said he found it took

weeks to get elementary information on a local station. The 20 kw transmitter is at El ?Sittahab near Omdurman. Transmitters on 7200 and 9180v kHz are at ?Soba, near Khartoum. A third SW site at Malakal is inactive. (Andy Sennitt on RNMN 12/17)

The Egyptian opposition paper 'Al-Wafd', on 11/24, cited Sudanese opposition sources in Cairo as saying the Sudanese government has turned the eastern region - Port Sudan and Suakin - into an advanced Iranian military base. The sources noted that Iran has built a radio station in Port Sudan beamed at Egypt and Arab countries to spread Iranian propaganda. (MENA news agency, Cairo, via WBI 11/27) No mention if SW or MW. [df]

TADJIKISTAN - new address is Ul. Chapayeva 31, Dushanbe 735025. (BBCM via Ratzler in DSWCI via Play-DX 716, via Hans Johnson)

TAHITI - RFO Tahiti has moved from 15170 to 15175 kHz; well heard in NZ from 0400-0730 // 6135 and 11825 kHz except 0600-0700 when R. Norway is dominant on 19m. (AC on RNZI 11/24) Measured here on 15175.7v, from 0200 in French, 0330 island music, //11827; probably moved due to WYFR on 15170; noted since 11/30, varying to 15175.6. Low audio. (Ernie Behr)

TRISTAN DA CUNHA - The administration of this tiny South Atlantic island advised WRTH in December that a new 25w FM transmitter is in use, but did not say what had happened to the SW transmitter on 3290 kHz. Reception reports, up or down, are wanted at WRTH HQ from nearby listeners. (Andy Sennitt on RNMN 12/17)

UNITED ARAB EMIRATES - UAE Radio Abu Dhabi on new 11710 from *2200 in English, over VOA, //11815 & 9605; from 0000 in Arabic on 11710, 9605 & new 9505. Strong since 11/16. (Ernie Behr)

UNITED KINGDOM - British citizens living on the European mainland have protested the plan to switch the Droitwich MW transmitter on 198 kHz from Radio Four to a proposed all-news operation. The BBC's Board of Governors has said it won't start Radio Six until transmission arrangements meet listeners' needs throughout the UK. The change may be put off until April 1994. The BBC has cut local programming in the Orkney and Shetland Islands to a few short newscasts. [Fiona Ritchie, where are you when we need you?--mf] The Radio Authority is advertising for tenders on private station licenses first issued before 1991. FM and AM freqs will be licensed separately. (RNMN 12/3)

John Tusa stepped down as managing director of BBC World Service on 12/23. Deputy Managing Director David Witherow is serving as acting managing director until a permanent replacement is found. Tusa did a lot to shape the BBC for the 1990s, changing the radio format and introducing a TV service. BBC WS is funded by a grant-in-aid from the British Foreign Office. The BBC's royal charter is up for revision. One announcement the week of 12/13 said BBC WS might switch to listener-supported pay radio. [Source not given.] Tusa was guest of a BBC phone-in broadcast live at 1400 Sun 12/20. (JM on RNMN 12/17)

U.S.A. - SW broadcasters can beat domestic radio broadcasters at their own game, Jock Elliott, who reviews equipment for Passport to World Band Radio, told the VOA's 50th anniversary conference in November. He said SWBC is still a sought-after alternative medium in developing and developed parts of the world. He said SW broadcasters will come out ahead if they offer something that home services in the target area do not offer. "And guess what? You do. You offer news, perspective, commentary, entertainment, original radio plays, language lessons, all from your own particular national perspective. And you, by definition, can't get that in another country. So when we began bombing a certain piece of sand in the Middle East, the first thing I did was turn on BBC WS. Then I went to Radio Netherlands. I began hearing different views and commentary. And I know an awful lot of people did that. For the past five years, sales of SW receivers have been growing at 20 per cent a year in the U.S." (RNMN 11/26)

Glenn Hauser is working on a project to bring DX news in a short program on week nights. The program would include very timely and dated DX and program listening tips, and allow WOR to include more background material. More details will be broadcast on WRNO. (DXLD 38 via Hans Johnson)

The *Christian Science Monitor* SW network has dropped its weekend broadcasts in Greek, Italian, Indonesian and JJ. An English feature, "Herald of Christian Science," has replaced Indonesian and JJ on KHBI, Saipan. (Yoshiaki Hayashi, RJMR 11/29)

The *Voice of America* cut back its SS for Latin America on 11/30 and dropped broadcasts to the Middle East which were added during the Gulf War. Richard Araujo of VOA's American Republics division said "We have reduced our SS broadcasts by about 3 hours a day, two hours less in the morning and one hour less in the evening. We have started a feed service of 10 five-minute headline news feeds on Intelsat. We are not on PanAmSat yet." (RNMN 12/3)

The Presidential Advisory Board which supervises R. Marti and TV Marti has recommended that both stations move HQ to

Miami. Orlando Bonachea, director of R. Marti, said many Cuban-American radio and TV personalities do not want to move to Washington, DC [to work for VOA only]. The final decision will be made several months from now by President-elect Bill Clinton. (Jeff White on RNMN 12/3)

The *Voice of America* announced plans to start a daily broadcast in Somali at 0245-0300 in late December via its Botswana relay. (RNMN 12/10) The VOA also began a once-weekly broadcast in Nepali 12/5 at 0115-0130 on 11920, 15210, 17780 and 21475 kHz via the Philippines. (JM on RNMN 12/10)

VOA on 11845, from *2200-2230* German program & pop music, often good since 12/5. Never heard before. What site? (Ernie Behr) It's from Gloria, Portugal, according to the detailed engineering schedule posted on the VOA Frequency Division BBS (+1-202-619-1494). [df]

Radio Free Europe will split the Czechoslovak section, and begin a separate Slovak service from the start of January. (Slovak Radio-I, via WBI 12/4)

WEWN is on the air, testing. Heard 12/17 at 2234 s/on to 2315 on 7540, with an average 30 db/9 signal. Then 12/18 from 0010 tune-in to 0020 signoff on 17725, fair around an s6. Later 0120-0140 UT, also on 17725 but this time the loss of propagation put the signal into the noise. The testing consisted of a repeated interval signal and voice IDs every 15 or 20 minutes. The IS is quite distinctive. (Tom Sundstrom on Shortwave Echo)

WEWN, the *Eternal Word Network*, Birmingham, AL, officially went on the air at 2000 UTC 12/28. The year-end sked runs from 2000-1000, as follows: 2000-2200 to Eu on 7540 kHz; 2200-0000 to Eu on 5825 kHz; 0000-0100 [westbound to China] on 17510 kHz; 0100-0300 [Middle East and India in EE] on 9825 kHz; 0300-0500 to Eu on 7520 kHz; and 0500-1000 to Eu on 7465 kHz. (George Jacobs and JM on RNMN 12/17) The mailing address during construction was: WEWN Transmitter Site, 1500 High Road, Vandiver, AL 35176. [mf]

A very qualified person in the know says WFLA may have to discontinue, or scale back, its operation of 25870. While WFLA can legally use the freq for remote cueing, it does not warrant a 24h operation. Also, since the operation is theoretically for public consumption, there's a problem with the signal being pre-delay. In other words, the profanity covered on the station proper is heard on shortwave. And finally the transmitter is unattended and it's alleged that they don't maintain a technical log. (Dave Sharp in DXSF., via Hans Johnson)

KCBI, Dallas, Texas, changed freq from 15375 to 15725 kHz between 1600-0100 because of co-channel QRM to/from Trans-World Radio Bonaire. [Andy Sennitt, RNMN 12/17]

(Remember, this is Gene Scott's Latin American outlet. Aren't some of these new stations operating outside the freqs available on many umpteen-band analog rcvrs?--mf]

UZBEKISTAN - R. *Netherlands* will use R. Moscow transmitters at Tashkent for relays to S. and E. Asia as follows starting Jan. 1: 1130-1325 in Indonesian on 17655 kHz; 2130-2325 in Indonesian and 2330-0025 in Dutch on 9855 kHz. (RNMN 11/26)

Uzbek Radio (tentative) on 15165 & 15570, from *0500 IS, C.Asian language & music past 0800; both strong 11/29, but no definite ID; 15165 listed in Nov LN, but different sked. (Ernie Behr)

VATICAN - *Vatican Radio* has contracted with World Radio Network in London to put nearly seven hours a day of VR programming onto the Intelsat 2F1 satellite [13 deg. East] which covers most of west and central Europe. Tests began 12/16; full service begins Jan. 1. The TV transponder carries the programs of the Middle East Broadcasting Co.

JM: Father Pascal Borgomeo of Vatican Radio says SW stations will have to diversify to meet the competition of satellite TV.

PB: "I think that SW will still be working by the end of the century, not only for technical and economic, but also for political reasons. I am also convinced the content and format of programs will change, passing from SW to other ways of broadcasting, and to international TV. Many people will discover that international broadcasting is also radio."

World Radio Network was talking to three other international broadcasters in mid-December.

Vatican programs in EE air at 0730, 1715, and 2050 // 6252 kHz EE will not be the only language in the Vatican satellite service. (JM on RNNN 12/17)

VENEZUELA - Secret police raided R. *Rumbos* in Caracas the day after the attempted coup, and destroyed almost all of the studio equipment. The station had *not* been seized by the rebels. An announcer told a reporter afterwards that only one working microphone was left in the building. Since reception of Venezuelan stations is not consistent in Quito, R. *Rumbos*' SW transmitters were thought to be off the air. (KMH/DXPL/12/5) 9660 kHz heard in CA with good signals and positive ID at 0328 12/6 just after DXPL's closing theme s began. (Mike Fern-CA)

VIETNAM - *Radio-TV Kon Tum*, 5061 kHz, was heard in Japan 11/21 from 1045- 1130*; local program in Vietnamese from 1045-1100; a relay of the Voice of Vietnam home service from 1100-1130; vernaculars after 1130 when it was

blocked by Zinjiang PBS on 5060 kHz. (Isao Ugusa on RJMR 12/13)

YEMEN - San'a noted on 9068.77 this frequency // 9779.8 at 0325. (Hans Johnson)

YUGOSLAVIA - Tanjug news agency, as heard by BBCM, reported 12/15 that *Radio Yugoslavia*, the external service, is broke. Management said it no longer had money to pay its power bills or staff salaries. The station's board held an emergency meeting 12/15 and announced it would shut down if the [Serbian] government could not find money to keep it operating through 12/31. Since January, staff had been cut from 180 to 140, and program hours increased from 10 to 34 daily. It was heard in Hilversum at 1930 12/16 on 6100, 7200 and 15140 kHz. (JM on RNMN 12/17)

ZAIRE - I received an informative verie letter for a 1987 reception of 15245, OZRT Kinshasa. The letter from Faustin Mbula, Ingenieur Technicien (he is responsible for the operation and maintenance of the shortwave transmitters), provided the following information: the 100 kw 15245 kHz transmitter broke in March 1988 due to the failure of the final stage tube. The transmitter was purchased in 1970. In addition, there was a problem with the antenna reflectors and conductors which reduced performance drastically. They are considering the purchase of a new 100 kw transmitter and have had discussions with a manufacturer to plan this purchase. He says they "currently" have the following SW transmitters: 7205, 6140 and 5995 all at 10 kw and "intended" for 24 hour service. He also listed the 2 kw outlet on 1448 kHz mediumwave. He says that shortwave is important to Zaire because it fills in the "silent zones" in the country's 2,245,000 square km not covered by MW or FM. The REZATELSAT satellite is used to route some OZRT programs from Kinshasa to the various provincial stations for rebroadcast. From there pgms are relayed over a 50 watt, 95 MHz directional link from the studio to the transmitter building. On other matters he says: "With the pillaging that began in Sept. 1991, the economy in Kinshasa, and Zaire in General, is very ill and this crisis has destabilized the government. I salute the election of Bill Clinton, the hope for change in Africa and the USA". (Mitch Sams)

CLANDESTINE - *Voice of the People of Kurdistan* Ayra Dangi Gelli Kurdistana noted on new 4085 kHz at 0352 sign on in Kurdish. (Hans Johnson)

EUROPIRATES - *The Edge*, which used to broadcast on 819 from a London tower block, is now on 6910 weekends with a new xmtr which relays Radio Dublin during the week. Address of the station is 12 Rue du Pont, 25680

Rougmont, France. (Freedx via Nov WDXC Contact, via Hans Johnson)

UNIDENTIFIED - Station on 6035, from 1300 Chinese religious program & songs till 1700 fade out, since 11/20, but no IDs. TWR Sri Lanka sked here this time, but in South Asian language. (Ernie Behr)

Resources - A Shortwave Frequency List published by the DX Team Berlin is issued five times a year. The subscription is DM40 or 28 IRC's per annum. Half of the information is in GG. The other half lists broadcasts, mostly aimed at Europe in EE. [No address given.] (David Ward and JM on RNMN 11/26) WRTH does not solicit summer skeds for its annual, which went to press in December, because they are so tentative it's a waste of space to publish them. (Andy Sennitt on RNMN 11/26) And, of course, Radio Netherlands has its own list of prominent stations which is free. (JM on RNMN 11/26)

The Times of India, India's largest English-language daily newspaper, is sponsoring a DX club and a DX column in the paper every other Thursday, written by Vitwarjit Guha Roy. WRTH will support the project with news and skeds, to introduce a very large number of people to international broadcasting. India has lots of DX clubs, which are doing a great job, but don't have the resources to reach thousands of people as a nationwide newspaper can. (Andy Sennitt on RNMN 12/17).

ITU News - Nearly 300 delegates from the 174 member countries of the International Telecommunications Union met in Geneva Dec. 14-23 to plan a revolution in the way the ITU does business. Technology is moving so fast that the policy-making simply can't keep up. The international rules and regulations are needed to insure that the airwaves we have to share don't collapse into total chaos or become ruled by just a few countries.

The "Additional Plenipotentiary Conference" must find a way to review technology on a continuous basis. Emotional and politically sensitive conferences like WARC 92 are on their way out. The delegates don't want them and the governments don't want them either. The practice of reaching consensus by exhaustion—where delegates worked without sleep (or in spite of it) for the last three days of WARC 92 is no longer acceptable. The organization of the ITU [which reflects management styles and frequency spectrums of the 1920's and 1940's] can't take the heat any longer.

Arnold Javantambu of Indonesia was elected director of the "Telecommunications Development Bureau." The TDB was set up to try to span the widening technology gap between rich and poor countries. Its first conference will

be held in Kyoto, Japan, in 1994, but the money for the project is a serious problem. About 10 million Swiss francs is available, but this is far from what's needed to develop telecommunications in the least developed countries. The International Frequency Registration Board's publications, particularly for SW broadcasting between 3 and 30 MHz, are often out of date. Is the IFRB mechanism obsolete? Stay tuned. (JM and Rosella Stroem on RNMN 12/17)

Sources - ASWP--Austrian Shortwave Panorama, ORF; DXPL--DX Party Line, HCJB; JA--John Adams, DXPL; KMH--Ken MacHarg, DXPL; QLB--Quito Log Book, DXPL; SS--Sergei Sosedkin, DXPL; RMV--Rich McVicar, presenter, DXPL; LMV--Lisa (Mrs. Rich) McVicar, DXPL. RJMR--Radio Japan Media Roundup; BMM--Bruce MacGibbon, RJMR; RKSF--Radio Korea Shortwave Feedback. RNMN--Radio Nederland Media Network; JM--Jonathan Marks, presenter, RNMN; VG--Victor Goonetilleke, RNMN; VS--Vasili Strelnikov, RNMN. RNZI--Radio New Zealand International Mailbox. AC--Arthur Cushen, DXPL, RNMN or RNZI. Above sources monitored by Mike Fern unless otherwise noted. RAE--Radio Argentina al Exterior. RMWS--Radio Moscow World Service. SCDX--Sweden Calling DXers.

HOW I SAVED A QUARTER - It's been a bit awkward putting LN together the last two months. As Bob Brown noted last month I had a little mishap with my right arm. I currently have a 'fixator' on it with pins into the hand and the radius (the large bone in the forearm), attached to a frame maintaining the bones in proper relationship. I look something like robo-cop. I have to be very careful going into convenience stores late at night! It does help to get to the front of food lines at parties - just take the hex wrench out & pretend to adjust the fixator; people start fainting & I walk to the front of the line! Several have asked how it happened, so here's the story. The evening of the election in November my wife & I drove overnight to Florida, pulling a travel trailer with the intention of leaving it there & visiting it two or three times during the winter when we got tired of the cold weather. Two hours after getting into Florida we had a flat tire on the van. I changed it & stopped down the road to add some air to the spare. I decided the trailer tires needed air, too. I got the air in one side and, wanting to get to the other side before my quarter in the air machine ran out, crossed the trailer tongue. I did get to the other side(!) where I smashed the head of the radius into several pieces. My HMO has \$8K in bills so far from other providers. I don't remember if the other side of the trailer needed air. Back next month. Dan

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



LIVE WIRE RADIO QSL #385



TO: Kess Comeau
DATE: 18 April 92
TIME: 0151-0333 UTC
FREQ: 15050.4 S
SIXTO: 1322 I
TX PWR: 100 w/EP
SIGNED:

Bill Lewis

ABU DHABI: UAE Radio 13605 f/d ltr. in 54 ds. for 1 IRC. (Colton-MA).

ADMIRALTY ISLANDS: Radio Manus 3315 p/d ltr. w/ tape and ms. v/s Eliun Sereman. (Klinck-NY). in 5 wks. for \$1.00. (name?)

ALASKA: KNLS 7365 f/d cd. in 56 ds. w/ schedule & pennant. (Leite-MA).

ALBANIA: Radio Tirana 11825 f/d cd. in 60 ds. (Gaharan-LA). 9580 f/d "Dress" cd. in 166 ds. (Humenyk).

ALGERIA: RTVA 17745 f/d cd.

in 9 wks. for a FR rpt. (Barto-CT).

ANDAMAN ISLANDS: All India Radio 4760 via Port Blair ltr. in 6 wks. for a * taped rpt. covering 2 days reception. v/s B. Sekhar Reddy, Assistant Station Engineer. (Berg-MA).

ANTIGUA: Deutsche Welle 9670 n/d cd. w/ schedule and ltr. in 2 mo. (CASIATIC RUSSIA: Radio Moscow 13645 via Khabarovsk f/d "Moskva River" cd. in 73 ds. (Schwartz-NY).

AUSTRALIA: VLW15 15425 via Wanneroo f/d "Map" cd. w/ schedule and stickers in 38 ds. (Carter-WA).

AUSTRIA: Radio Austria International 9875 f/d "Harvest Thanks Giving" cd. in 67 ds. w/ schedule. (Humenyk-ONT).

BAHRAIN: Bahrain Broadcasting Station 9746 p/d "Map" cd. in 19 ds. for 1 IRC. (Leite-MA).

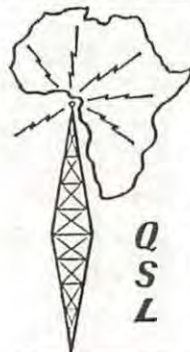
BELGIUM: BRT 9930 f/d cd. in 65 ds. for 1 IRC. (Pankake-MN).

BHUTAN: United Nations Radio 5025 via BBS f/d cd. in 24 ds. for ms. Sked * in rcvd. VIC # 211. (Palmerheim-WA). 5023.1 f/d prepared cd. in 3 yrs. after numerous f/up rpts. (Lare).

BOLIVIA: Radio San Gabriel 6085 f/d ltr. w/ prepared cd. in 18 ds. for a SP rpt. and \$1.00. Schedule was rcvd. v/s Lic. Gary Martinez R., Director. (Kohlbrener-PA).

BOSNIA-HERCEGOVINA: Radio Yugoslavia 11870 via Bjelina f/d cd. w/ site * in 45 ds. after a f/up rpt. for \$1.00. Schedule was rcvd. (Kusalik-ALB).

BOTSWANA: Radio Botswana 4830 n/d "Herdsboy Milking Cow" in 81 ds. (Yamada-JPN). VOA 15495 f/d "Crosley Transmitters" cd. in 8 mo. (Lare).



Q
S
L

Radio Nacional

B A T A - LITORAL

Apto.- 749.- Tel. 240-8-25.92

República de Guinea Ecuatorial

Sr. PROF. G. MICHAEL WOLOCH
Confirmamos su control de recepción
Frecuencia: 541-5005 kHz
Fecha: 20-09-1.986.-
Hora: 21.40 h. hasta 22.02 h.



BRASIL: Radio Oito de

* **Setembro** 2490 f/d prepared cd. w/ personal ltr. in 1 mo. for a PT rpt. and \$1.00. v/s Adonias Gomes. (Kohlbrener). **Radio Record** 9505 f/d prepared cd. w/ stickers and a form ltr. in 20 ds. for a PT rpt. and \$1.00. v/s Mario Luiz Catto. Diretor-Geral. (Clar).

more to follow...

BRASIL: Radio Bandeirantes
6090 p/d ltr. w/ pennant & sticker in 33 ds. for a PT rpt. (MacHarg).

CAMEROON: CRTV 4850 via Yaounde f/d "Logo" cd. w/ sked. in 1 yr. after a f/up rpt. v/s Francis Achu Samba. (Berg-MA).

CANADA: CFRX 6070 f/d "Map" cd. from the ODXA in 2 wk. for ms. (Carter-WA). **Canadian Forces Network 13650 via RCI** f/d "XV Winter Olympics" cd. in 43 ds. w/ stickers. (Humenyk-ONT).

Radio Austria International 6015 via RCI Sackville f/d "Salzburg Costume" cd. in 33 ds. (Poston-IA). **CBC Northern Quebec Service 9625 n/d ltr.** w/ schedule and stickers. (Schwartz). **Radio Japan 5960 via RCI Sackville** f/d cd. w/ schedule in 41 ds. for 1 IRC. v/s K. Hishikawa. (Corlies-ONT).

CHINA, PEOPLES REP. OF: Voice of Jingling 4875 f/d "City Gate" cd. in 26 ds. for a taped rpt. for \$1.00. (Clar-NY). same in 42 ds. for \$1.00. (Kohlbrenner-PA). **Yunnan P.B.S. 4760 f/d cd.** in 6 mo. w/ schedule. (Leite-MA).

CONFIRMACION DE ESCUCHA

ORA Sr. Ross W. Cumbeau
QTH 424 Centre Street Andover, Ma. 01810 USA.
FECHA 4.5. Octubre 1988 QTR
BANDA SEÑALES 15.474 kHz
Sus datos de recepción coinciden correctamente con los archivos de programación de esta radioemisoras antártica argentina

EQUIPAMIENTOS

POTENCIA EN KW 1 ANTENA 20m Hertz
FRECUENCIAS DE EMISION 15.474, 11.951 y 6230 FHz
HORARIOS DE EMISION 1900 a 2130 hs. de Buenos Aires
DESDE EL TAA un cordial saludo y gracias por sus señales
Base Antártica Esperanza 9 de A. 1988



CIS: Radio Russia 9595, 11990, 11715, 12045, 15365 and 11630. p/d ltr. w/ sked. in RS in 2 1/2 mo. (Barto-CT).

*** CLANDESTINE: Voice of the National Army of Democratic Kampuchea 5408** n/d ltr. after several f/up rpt. This was sent to: Mr. Phobel Cheng, First Secretary, Permanent Mission of Cambodia to the U.N.

VERIFICATION SIGNERS: Adventist World Radio 11855 Revtov Igor, Coordinator. **Radio Chita 4860 V.A.** Klimov, Chief Engineer. **Radio Irina 15580** Mrs. Irina Susman. **Radio Station Atlantika Murnansk** Evgeniji Artemewitsch Ljapin. Addr: U1. Knipowitsch Dom34, Kv 27, 183039 Murnansk. **Radio Tirana 11825** Gezim Guri, Correspondence Section. **Radio Nacional de Angola 4955** Cesar A.B. da Silva, General Director. **Radio Argentina Al Exterior 15345** Noemi Fernandez, QSL Secretary. **CRTV 4850** Achu Samba Francis, Directeur Technique. **RFI Cirebon 2390** Bagus Giarto B.S.C. **Radio Tinco Maria 4759** Miss. Gina A. de la Cruz Ricaldi, Secretaria Administrad. **Radio Origen 5324** Jesus Acuna Quispe, Jefe de Programas. **Radio Horizonte 5008** Rafael Alberto Vela Pinedo, Gerente. **Radio Naylamp 4109** Dr. Juan Jose Grandez Vargas, Director - Gerente...via PLAY/DX...Sam-

820 Second Ave., Suite 1500, N.Y., NY 10017. (Hardester)...Very nice!

* **Democratic Voice of Burma 17840 via NRR/Radio Norway - Kvitsoy** very

QSL

Senior Transmitter Engineer,
British Eastern Relay Station, Masirah Island,
Sultanate of Oman.

via Tom Millard



Dear Thomas
thank you for your reception report of our transmission detailed as follows :-
Date Time (UTC) Frequency (KHz)
14 Dec 90 0425 11760

I can confirm that the above transmission was radiated from this station. Full schedule details of world service broadcasts are available for a small annual fee from :-

London Calling, PO Box 76, Bush House, Strand, London, England.

nice B&W cd. in 1 mo. for a taped rpt. v/s Maung Maung Myint. Addr: P.O. Box 6720, St. Olavs Plass, 0130 Oslo, Norway. FAX 1s 47-2-114988. (Berg-MA).

* **Voice of Freedom/Radio Irina 15580 via Irkutsk** f/d ltr. w/ site in 7 wks. for \$1.00. Addr: Box 174, Moscow Internat-

CZECH AND SLOVAK RADIO INTERNATIONAL

Note: In response to last months Column, a very astute reader sent in the following: The name of our station, as it appears (above) does not correspond with the name we use on the air (Radio Czechoslovakia). It has been chosen here for the interim period until the future of the Czech and Slovak Federative Republic is settled in the next few months. No particular political meaning is implied and we hope that in spite of all the name changes so far our listeners will continue to enjoy our varied mix of programming as before... Now if our astute Editor could only find the contributors name, proper due would be given...Sam.



ional Post Office, Moscow. v/s Daniel Kaszeta, Assistant Director. (Craighead-KS). same w/ newspaper articles in 31 ds. for 1 IRC (returned). (Yamada-JPN).

COSTA RICA: Adventist World Radio 9725 f/d "Logo" cd. w/ sticker in 312 ds. for \$1.00. (Hardester-NC). f/d "Crest" cd. w/ schedule and sticker in 3 1/2 mo. for \$1.00. (Gold). 11870 f/d "Eclipse" cd. w/ personal ltr., pennant and sticker in 2 wks. for ms. (Carter-WA). **Radio For Peace International** 13630 f/d "5th Year Commemorative" cd. in 43 ds. for 1 IRC.

NOTES: Brian Bouden asked if I had noticed a drop in Russian QSLs during the past few months. The answer is yes and no. I do notice a drop in QSLs from Radio Moscow. This is probably due to their financial situation. However, I notice an increase in all of the former Soviet regional and private broadcasters. I guess this has something to do with a new found freedom... Sam. **Larry Colton** in Westfield, MA says that he has returned to SWling after a 25 year absense. The QSL Column has once again sparked his interest in QSLing. Glad to have you with us. Somehow that spark seems to always return... Sam.

* (Colton-MA). same in 6 wks. (Berg-MA). **United Nations Radio** 13620 via **RFPI** f/d ltr. in 54 ds. for \$1.00 (returned). v/s Erin Faherty-Mella, Executive Producer. (Kusalik-ALB). same in 5 wks. Addr: UNESCO, 7 Place de Fontenay, 75700 Paris, France. (Berg-MA).

CROATIA: Croatia Radio 9830 and 7240 f/d cd. in 3 mo. (Barto-CT).

CUBA: Radio Habana Cuba 11970 f/d "DX Club" cd. w/ form ltr. in 150 ds. (MacHarg). **Radio Moscow** 11710 f/d cd. in 2 mo. (Barto-CT).

CZECHOSLOVAKIA: Radio Praha International

7345, 9540 f/d cd. w/ schedule and sticker in 19 ds. after a f/up rpt. (Christensen-ALB). 7345 via **Rimavska Sobota** (Slovak) and 5930 via **Litomysl** (Czech) in 14 ds. for \$1.00. Sticker & schedule were rcvd. (Sgrulletta) 5930 via **Rimavska Sobota**, 7345 via **Litomysl** and 9580 via **Velke Kostolany** f/d cd. w/ sked. (Berg) (please see above note... Sam.)

ECUADOR: HCJB 15115 f/d "Children w/ Radio" cd. in 2 ds. (MacHarg) 15155 f/d cd. in 2 ds. (MacHarg) 11925 f/d cd. in 1 mo. v/s Glen Volkhardt. (Lamb-NY). 11730 cd. was rcvd. for the Clayton and Helen Howard call-in program. v/s Rich McVicar. (Berg-MA). **ERPE HCER5** 5011.1 f/d prepared cd. w/ p/d ltr. in 1 mo. for a SP rpt. and SASE. Schedule was rcvd. v/s Juan Perez Sarmiento, Director. (Palmerheim-WA). **Radio Federacion** 4960 p/d personal ltr. in 6 wks. for a SP rpt. & \$1.00. v/s Prof. Albino Utitaj. (Clar-NY). **NRC** via **HCJB** 21455 f/d "Logo" cd. w/ **NRC** Catalog in 40 ds. for ms. v/s Ken Patterson. (Clar-NY).

SHORTWAVE STATION

RADIO SILVERBIRD

NETHERLANDS

Date: 02-06-1992 Frequency: 16272 Time: 13555
To: Chris Lobdell

Thank you very much, Chris, for your reception report. For receiving this radiation in Stoneham U.S.A.

Radio Silverbird is a free radio station from the central east part of the Netherlands in the neighbourhood off the city Almelo.

Our transmitter is a Standard Elektrik Lorenz Type: Fu S4
The output transmission is during nighttime programs 100 watt, and during day time transmission about 35 watt.
The frequency range is from 15 mhz to 7.5 mhz. Also include mhz.
The antenna is a half wave dipole from 2 times 1170 meters.
Modulation comes by way of a home made amplifier from 60 watt

Our intention is to have a programme on sunday in the even weeks from nearly 10.00 gmt till 11.00 gmt on 6.200 if frequency is free. Otherwise we use another frequency in the 6.200 to 6.300 mhz. Greetings and 73 and 5Ts to you and your family.

Keep on listening and all the best with your hobby ☺

RADIO SILVERBIRD pobox 13 75952G
Op. 30s Weerde Netherlands
Special thanks for the 1st report from U.S.A.



via Comeau
EINE FREIE STIMME DER FREIEN WELT

RIAS
BERLIN

ENGLAND: Radio Japan 9770 via Skelton f/d cd. w/ schedule in 60 ds. (D'Angelo-PA). 9695 same cd. w/ schedule and newspaper in 1 1/2 mo. v/s Kunitoshi Hishikawa. (Lamb).
EURO PIRATE: Radio Silverbird
* 6272 f/d green form ltr. in 3.5 mo. for \$1.00. My rpt. was the first from the USA! Addr: Box 13, 7595 ZG, Weerselo, Holland. (Lobdell-MA).

NOTES: John Scruletta in NY sent in a photocopy of an 45rpm record from Hallicrafters called **The Amazing World of Short Wave Listening**. I do remember that record and it brings back quite a few memories... Sam. **Tom Overcamp** sent along a very beautiful copy of a Radio Madrid World Championship Soccer Team pennant. I wish it would reproduce for the Column... Sam. **Mike Hardester** says that on Halloween in his bedroom "DX Den" he had an uninvited guest - a 3 foot copperhead! This is not the type of item to play trick or treat with. By the way, the snake is history!



Adventist World Radio

EURO PIRATE: Delta Radio 6275.6
* f/d personal ltr. w/ sticker and info. sheet in 5 wks. (Barto-CT).

EUROPEAN RUSSIA: Radio Moscow
21785 f/d cd. in 3 mo. (Barto) 15185 via **Serpukhov** and 11630 via **Moscow** f/d cd. in 7 wks. (Barto-CT). 15280 via **Samara** f/d cd. in 7 wks. (Barto-CT). 15280 via **Samara** f/d "20th Anniversary" cd. w/ schedule in 40 ds. (Palmer-IL). ...What was the former name for Samara?... Sam.

FRANCE: Radio France International 3965 f/d cd. w/ schedule in 35 ds. (D'Angelo-PA). same in 24 ds. w/ sticker and schedule. (Jones-OH).

To Christos Riggs
We are pleased to verify your reception of our station.
Date 20 July 1992 Time 0400 UTC
Frequency 11900 kHz 25 meters
Transmitter location Ekaterinoburg, Russia
200 KW

AWR - Europe, PO BOX 383, 47100 Forli, Italy

FRENCH GUIANA: Radio Japan 15325 f/d "Summer Festival" cd. in 3 1/2 mo. (Lamb-NY). f/d "Seto Ohashi Bridge" cd (Hardester-NC). **RFO Guyane** 5055 f/d "Pink Flamingos" cd. in 9 mo. for a FR rpt. and \$1.00. (Clar-NY). **Radio France International** 15200 via **Montsinery** f/d cd. in 55 ds. for 1 IRC. (Palmer-IL). **Radio Beijing** 11680 f/d "Tientan Park" cd. w/ schedule and sticker in 2 mo. v/s Lifang Chen. (Lamb-NY).

GABON: Radio France International 4890 via **Moyabi** f/d "Le Seine et la Tour Eiffel" cd. in 37 ds. (D'Angelo-PA).

GERMANY: YOA Munich 3980 f/d "Crosley Transmitters" cd. in 11 mo. (Lare). **Radio Liberty** 11805 p/d cd. in 3 1/2 mo. (Barto-CT). **Bayerischer Rundfunk** 6085 f/d "Clouds/Logo" cd. in 32 ds. (Humenyk-ONT). **Radio Rainbow Germany** 6275 QSLed 3/91 rpt. after help from Krueger and Printz w/ a form ltr., long personal note, photos and stickers. next page...





Mr. Christos Rigas, Chicago,

РАДИО МОСКВА

Radio THE VOICE OF RUSSIA

Эта карточка подтверждает ваш рапорт о приеме передач Московского радио

Transmitter in Дата 23-Мая-1992
Serpookhov, town near
Moscow (40 km) Время 14:00-14:30 UTC
Частота = 13,680 kHz

DX Editor Paul Mikhaylov

17-Юль-1992 Подписания от [Signature] РАДИОМОСКВА
на приеме передач МОСКВА

Москва Государственный университет имени Владимира Ильича
Тверь Союз ССР

КЛУБ
ID X

in 6 wks. after the rpt. to Printz. Station said this wasn't their transmitter but a probable U.K. relay. Addr: Postfach 202, D-6440 Bebra, Germany. (Herg-NA).

GREECE: Voice of Greece 9395 & 9420 f/d "Neteora Monasteries" cd. in 82 ds. for \$1.00 (Palmer-IL). 17525 same cd. w/ schedule in 49 ds. after 4 rpts. (Schwartz-NY).

GUAM: KTWR 11805 f/d "Old Spanish Bridge" cd. in 35 ds. for ms. and \$1.00. (Palmer-IL). **Adventist World Radio** 11980 f/d "Sticker" cd. w/ calendar and stickers in 2 wks.

GUATEMALA: Radio Buenas Nuevas 4800 p/d cd. w/ pennant and info. sheet in 33 ds. for a SP rpt. and \$1.00. v/s Israel Rodas M., Gerente. (Clar-NY).

HOLLAND: Radio Nederland 17610 via Flevo f/d "Happy Station" cd. in 40 ds. for 1 IRC. (Pankake-MN).

HUNGARY: Radio Budapest 9835 "National Costume" cd. in 48 ds. (Poston-IA). 15220 f/d "Parliament Building" cd. in 36 ds. (Schwartz-NY).

ICELAND: INBS 13855 and 15790 f/d blue "Lagoon" cd. in 19 ds. for 1 IRC and \$1.00. (Palmer-IL).

ITALY: RTV Italiana 9575 and 11800 n/d "Woman and Child in Garden" cd. in 22 ds. after a f/up rpt. (Schwartz-NY). **IRRS** 7125 f/d "Milan City" cd. in 129 ds. for a taped rpt. and 1 IRC. (Lamb-NY).

JAPAN: Radio Japan 11865 f/d "The Lights of Hakodate, Hokkaido" cd. in 6 wks. w/ schedule. (Poston-IA). 11685 f/d cd. in 42 ds. for 1 IRC. (Colton-MA).

KENYA: Voice of Kenya 4934 f/d ltr. in 22 ds. for 1 IRC. (Colton-MA).

—VOICE OF FREEDOM—

PO Box N. 174, International Post Office, Moscow, Russia

October 19, 1992
Reception Report 008

2110 W. 74th Terrace
Pacific Village, Kansas 62308
United States

Dear Mr. Craighead:

Thank you for taking the time to send us your detailed report and for your interesting stamp. The Voice of Freedom/Radio Trina confirms your reception of our radio program on 10 August 1992 from 1400 to 1812 UTC on 15580 kHz. Our signal is transmitted by a 100 kw directional transmitter located in Irkutsk, in Siberia. The transmitter beams the signal in an approximate 180 degree direction. Our programs are written and produced here in Moscow and the signal is relayed to our transmitter site. Our program is independent of Radio Moscow. Our programs, intended for Vietnam, are broadcast every day from 1400-1500 UTC on 15580 kHz. Additional frequencies are planned for the future. We broadcast a program of democratic political programming—music, and news to the people of Vietnam. We attempt to do the same for Vietnam—Radio Free Europe and Radio Liberty do for Eastern Europe and the former USSR. The VOF staff includes people from many nations, but the majority are Russian and Vietnamese. We have been broadcasting continuously since 20 July 1992 and hope to do so until Vietnam is free. We are funded by private donations. If you know of any individuals or organizations willing to support our cause, please let us know.

You have been issued one of our first confirmation letters and you are one of the first American listeners we have heard from. We greatly appreciate your reception report. As a new radio station, we are highly interested in the quality and strength of our signals. As such, we actively encourage reception reports with as much detail as possible, especially from Asia. Any evidence of jamming or deliberate interference would be very important to us. If you have any friends or colleagues who are shortwave listeners, please encourage them to send reception reports to us. If you know of any shortwave listeners in South-East Asia (such as Thailand, Singapore, Malaysia, etc.), we would be very interested in their reception reports. Reports can be written in Russian, English, or Vietnamese.

I have enclosed several newspaper articles about our radio station that you may find interesting. As a fellow shortwave listener and amateur radio operator (US call sign N5SIA), I wish you the best of luck in your monitoring. Our staff would like to know where you learned Vietnamese, since few Americans speak it. We also thank you for the dollar. With the inflated exchange rate for the Russian Ruble, one dollar pays for about 13 international letters. Our staff tries to collect flags from each of the nations that have sent reception reports. If you could send us an American flag, we would greatly appreciate it.

Our new address is Box 174, Moscow International Post Office and our phone number is (095) 431-3782. If you or any other radio hobbyists are ever in Moscow, please come and visit us.

Sincerely,
Daniel Savack
Assistant Director
The Voice of Freedom

KOREA, DEMOCRATIC REP: Radio

Pyeongyang 6576 f/d "Red Peonies" cd. w/ 33rpm record in 76 ds. for 1 IRC and \$1.00. (Palmer-IL).

KOREA, REPUBLIC OF: Radio Korea 9750 p/d "Farmers Dance" cd. in 21 ds. for \$1.00. (Gold-MI). 15575 same cd. in 19 ds. w/ 3 types of schedules w/ stickers. (Jones-OH).

LITHUANIA REP: Radio Vilnius 11780 f/d cd. in 71 ds. (Poston-IA). 17690 f/d "Rainbow" cd. in 35 ds. for 2 IRCs. (Palmer-IL).

Radio Centras 9710 via **Sitkunai** f/d "Parliament Building" cd. in 1 yr. w/ schedule. (Kusalik)

LUXEMBOURG: Radio Luxembourg 15350 f/d cd. w/ sticker and a T-shirt in 23 ds. for 1 IRC. (Pankake-NN). same w/ shirt (XL) in 17 ds. for 1 IRC and \$1.00. (Palmer-IL).

MALAGASY REP: Radio Nederlands 9860 f/d "Daffodil" cd. in 28 ds. for 1 IRC. (Palmer-IL).

MALAWI: Malawi Broadcasting Corporation 3381 f/d ltr. in 280 ds. for \$1.00 v/s P. Chinseu (Lawrence).

MALI REPUBLIC: Radio Beijing 9770 f/d cd. in 130 ds. for 2 IRCs. (Nibecker-MEX).

MALTA: Voice of the Mediterranean 11925 f/d cd. in 88 ds. for 1 IRC. (Romeo-NY).

MANCHURIA: Heilongjiang PBS 4840 via Harbin 2 different cds. in 20 ds. for an EG/CH rpt. and SASE. (Murray-OR).

MAURITIUS: MBC 9709 ltr. w/ postcards and a small water painting w/ stamps in 3 mo. after several f/up rpts. since 1984! v/s S. Saleses, Studio Manager. (Sams)...Great!

MEXICO: XEPPM Radio Education 6185

* p/d ltr. w/ postcard and station brochure and schedule in 342 ds. for \$1.00. v/s Lic. Luis Ernesto Pi Orozco, Director General. (Lawrence-NY). f/d ltr. in 7 mo. for an EG rpt. (Price-PA).

MOLDOVA: Radio Moscow 15485 via Kish-
* **invo** f/d "Peoples Friendship" cd. in 35 ds. (D'Angelo-PA). f/d cd. in 50 ds. (Gaharan-LA).

NEW BRITAIN: Radio West New Britain

3235 p/d ltr. in 209 ds. for SASE (not used). v/s Esekia Mael, Provincial Program Manager. (Murray-OR). p/d ltr. in 5 mo. for \$1.00. (Kohl-brenner-PA).



RADIO NACIONAL DE ANGOLA

NEW GUINEA: Radio Madang 3260 n/d personal ltr. in 73 ds. for SASE. v/s James S. Valakvi, Assistant Provincial Program Manager. (Murray).

Caro Senhor

Acusamos a recepção de sua carta, sobre as condições de escuta da nossa estação emissora, na frequência de _____ KHz. aos _____ horas T.M.G.

Cher Monsieur

Nous remercions votre lettre et vos informations sur nos conditions d'auditions sur la fréquence de _____ KHz. le _____ des _____ heures T.M.G.

Dear Sir

We received your letter, listening conditions of broadcast on short wave frequencies of 4970 KHz. listened by you 12th June 1982 from 1905-12-12 2015 G.M.T.

Rádio Nacional de Angola, 29-1-05-1982

- O Director.

Q
S
L

w/ sticker and schedule in 30 ds. (Jones-OH). 11795 f/d "Glass Bottles" cd. w/ schedule in 21 ds. (Poston-IA).

PAKISTAN: Radio Pakistan 11570 f/d ltr. in 47 ds. for 1 IRC. v/s Syed Ab-rar Hussain. (Colton-MA).

PALAU: KHBN Voice of Hope 9830 f/d "World Network Map" cd. in 30 ds. for SASE. v/s Ben Cabral. (Murray-OR). same SEMINAR MARIENHÖHE



The Seventh-day Adventist Church operates more than 5,000 schools around the globe making it the largest Protestant school system in the world. Seminar Marienhöhe is located near Darmstadt, Germany and provides higher education for German-speaking students.

To Christos Rigas
We are pleased to verify your reception of our station.
Date 24 June 1992 Time 1600-1630 UTC
Frequency 15125 kHz 19 meters
Transmitter location Samara, Russia



NATIONAL BROADCASTING

COMMISSION OF PAPUA NEW GUINEA
11 2235 BRISBANE QLD. AUSTRALIA
RE 31 302
FAX 91195

Radio New Ireland
P.O. Box 101
Kororua
New Ireland Province

28th October 1992

Mr Chris Lobdell
P O Box 146
Jonestown PA 02100
United States of America

Dear Mr Chris Lobdell

We write to thank you and acknowledge receipt of your reception report of Radio New Ireland on 5th October 1992.

Details of the programme and specification of the frequency mentioned in the report confirmed that you were actually listening to our station, Radio New Ireland.

Radio New Ireland is one of the 19 Provincial Radio Stations of the National Broadcasting Commission (NBC), of Papua New Guinea. It broadcasts on a frequency of 3905 kHz in the 75 MHz and on aerial power of 10 KW.

Our transmission time are: 0600 - 0600 GMT
1700 - 2300 GMT

We are pleased that Radio New Ireland can also be heard from that part of the world.

NEW ZEALAND: Radio New Zealand International 9700 p/d "Bellbird" cd. w/ sticker and sked. in 48 ds. for 4 IRCs. (Christensen-ALB).

NORWAY: Radio Norway International 15180 f/d cd. w/ sked. in 28 ds. for 1 IRC. (Pankake-MN). 9565 f/d "Drinking Vessels" cd. w/ schedule and sticker in 34 ds. v/s K. Salom. (Christensen-ALB). 9645 f/d cd

in 28 ds. for \$1.00. (Palmer-IL). cd. w/ schedule in 32 ds. after a f/up rpt. (Yamada-JPN). in 42 ds. for \$1.00. (Kohl-brenner-PA). same in 2 mo. for SASE. (Sgrulletta-NY). in 18 ds. w/ brochure for \$1.00. v/s David Lauffer. (Buer-FL). cd. in 6 wks. for ms. (Carter-WA). cd. in 3 mo. for a taped rpt. v/s Paul Swartzendruber, Chief Engineer. (Berg)

PAPUA NEW GUINEA: Radio Southern Highlands 3275 p/d ltr. in 3 wks. for \$1.00. v/s Andrew Meles, Provincial Program Manager. (Kohl-brenner-PA). **Radio Sandaun** 3205 n/d ltr. in 369 ds. (D'Angelo).

To Mr. J.D. Basto

This verifies your reception report on our transmission

Date: 11/29/90

Time: 03:50-03:57 UTC.

Frequency: 7400 KHz.

RADIO YEREVAN

PARAGUAY: Radio Nacional de Paraguay 9735 p/d cd. in 37 ds. for a SP rpt. in 82 ds. for \$1.00. v/s Filemon Arguello M., Jefe del Dpto. de Recursos Humanos. (Palmer-IL). in 1 mo. w/ postcard of Hotel Ita Enramada. The handwriting was very hard to understand but I did figure out that the v/s is studying to be a doctor - and that could explain it! (Bouiden-CA).

PERU: Radio Madre de Dios 4950 f/d "Map" cd. in 9 mo. for a SP rpt. (MacHarg).

PHILIPPINES: FERC 15450 f/d cd. w/ sticker and schedule including a personal ltr. in 142 ds. (MacHarg). Radio Pilipinas 21580 f/d cd. in 20 ds. for \$1.00. Schedule was rcvd. v/s Evelyn S. Agato. (Palmersheim-WA).

PORTUGAL: Radio Portugal International 9555 f/d cd. in 21 ds. w/ sticker, ltr. and schedule. (Jones-OH).

RUSSIA: Radio Pamyat 12030 via Ekaterinburg f/d cd. in *5 mo. for 2 IRCs. w/ schedule and info. sheet. v/s Yuri Miroyubov. (Kusalik-ALB). Radio Aum Shinrikyo 15425 f/d "H.H. Shoko Asahara" cd. w/ rel. info. in 2 wks. (Carter-WA). Radio Moscow International 15375 f/d cd. w/ sticker, personal ltr., schedule and



Verification of Reception

We acknowledge with thanks your Reception Report of our V. (A) and ltr. in commission at 01.00-03.30 UTC. 94.75 - KHZ on 10-2-1992 S. Sullivan

RADIO CAIRO
EXTERNAL SERVICES
P O BOX 36 - CAIRO - A.R.E.

via Klink

Verification of reception

Nous vous remercions de votre rapport d'écoute sur notre émission à destination de KHZ en date de

RADIO DIFFUSION EGYPTIENNE
SERVICES ETRANGERS
B P 36 - LE CAIRE - R.A.E.

RWANDA: Deutsche Welle 17860 n/d cd. in 89 ds. w/ stickers. (MacHarg).

SAIPAN: KHBI 9530 f/d cd. in 85 ds. for ms. (Palmer-IL). 17780 f/d "Antenna" cd. w/ schedule in 8 wks. for ms. (Carter-WA). 9465 f/d cd. w/ personal ltr. and sked. in 2 wks. for ms. (Carter-WA).

SAUDI ARABIA: BSKSA 21505 f/d "Logo" cd. w/ schedule in 2 mo. for \$1.00. (returned). (Clar-NY). 9870 f/d cd. w/ schedule in 153 ds. w/ brochures on becoming a Muslim. (Schwartz-NY).

SCOTLAND: Weekend Music Radio 15044.8 f/d cd. in 3 mo. w/ ltr., stickers and station info. sheet for \$1.00. v/s Jack Russeil. (Kusalik).

NATIONAL SEYCHELLES: BBC 11730 f/d ltr. in 33 ds. for \$1.00. v/s Peter Lee, Resident Engineer. (Palmer-IL).

BROADCASTING SINGAPORE: BBC 9740 via Kranji f/d cd. in 27 ds. for 2 IRCs. (Pankake).

COMMISSION OF PAPUA NEW GUINEA

SOUTH AFRICA: Channel

* Africa 9730 f/d "SABC/SAUK" cd. in 29 ds. w/ postcard. (Palmersheim-WA). Radio RSA 15220 f/d "Durban Beach" cd. in 7 wks. (Lamb-NY)

SPAIN: Radio Exterior de Espana 9530 f/d cd. w/ decal and schedule in 120 ds. (Gaharan-LA).

SUMATERA: RRI Medan 3374.3 f/d prepared cd. w/ p/d ltr. in 3 1/2 mo. for SASE (used). v/s Suprpto. (Palmersheim-WA).

SYRIA: Radio Damascus 15095 f/d "Map" cd. in 119 ds. for 2 IRCs. Also rcvd. a paper flag, sticker and a copy of the Syrian Times newspaper. (Nibecker)



Phone: 409029 Cables:

Telex: 40009

Radio Manus,
P.O. Box 505,
LORENCAU,
Manus Province.

27th October, 1992.

Jerry Klink,
43 Lein Road,
West Seneca, N.Y. 14224,
UNITED STATES OF AMERICA

Dear Sir,

Greetings from Papua New Guinea and we do thank you for your reception report dated the 3rd of October, 1992 telling us about the Stations' reception from that part of the world.

According to our Programmes Schedule, the programmes you heard were verified to be correct.

It was rather interesting to know that you were keen in listening to the Stations of the Pacific Islands Nation.

We sincerely regret that we do not have a QSL Reply Card so my acknowledgement is through this letter to you.

**ZAMBIA NATIONAL BROADCASTING CORPORATION**

Telephone: (214) 710-1111 Telex: ZA 411111 Telegrams: AMBROADCASTING 402222

Broadcasting Hours: P.O. Box 50113 Lusaka Zambia

All correspondence to be addressed to the Director General

Your Ref

Our Ref

25th February 1991

ENBC/6/13/90

Rev. John C. Eckert
St Dominic Church
8504 Frankford Avenue
Philadelphia, PA 19136
U.S.A.

Dear Rev,

I would like to thank you for the radio reception report dated 18th January 1989. It appears due to delays in the "Posta Systems" your report only reached my office this year 1991. However, a reply still follows.

I also enclose a QSL Card.

Yours faithfully

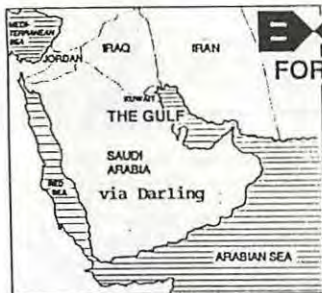
W. Lukozo
PROJECT ENGINEER
ZAMBIA NATIONAL BROADCASTING CORPORATION**TAIWAN: Voice of Asia**
7445 f/d "Church of Francesco d'assisi"
cd. w/ sticker in
27 ds. for \$1.00.
(Clar-NY).**TIMOR (Portuguese): RRI Dili** 3305 n/d cd. for
* an IN rpt. after 2 f/up rpts. v/s Harry.A.
Silalahi. Addr: Jalan Kaikoli, P.O. Box 103,
Dili 88000, Timor-Timur, Indonesia. (Harden-
TOGO: Radio Togolaise 5047 f/d "Map/ ter-OKI).
Logo" cd. in 37 ds. for a FR rpt. (Humenyk).
TURKEY: Voice of Turkey 9445 f/d "Treasure Box"
cd. in 50 ds. for \$1.00 and 1 IRC. (Palmer-IL)
UKRAINE: Radio Moscow 15375 via **Simferopol** f/d
cd. in 7 wks. (Barto-CT).**USA: KVOH** 9785 f/d "Coverage
Map" cd. w/ schedule and
stickers in 29 ds. v/s
Patrick C. Kowalick. (Hu-
menyk-ONT). same cd. in
3 wks. for ms. (Carter-WA). **WMLK** 9465 f/d ltr.
in 18 ds. v/s Elder Jacob O. Meyer. (Humenyk-ONT)
* **WNSX589** 1620 via **Virginia Beach** TIS Radio Sta-
tion f/d ltr. w/ E/d prepared cd. 10 watts! v/s
Buddy Wheeler, Visitor Infor-
mation Center Supervisor.
Addr: City of Virginia Beach,Dept. of Convention and Visitor Development, P.O. Box 200, Virginia
Beach, VA 23458. (Hardester-NC)...Interesting...Sam. **WFLA** 25870
cd. w/ statement that "We use 25.87 NB FM to send cues toour airplane." No mention of SW. v/s Wilson Welch,
Chief Engineer. (Berg-MA). same in 12 ds. (D'An-
gelo-PA). **WSHB** 13760 f/d cd. in 45 ds. for ms.
v/s Judy P. Cooke. (Pankake-MN). 9465 f/d cd. in
74 ds. for ms. (Palmer-IL). **Radio Free America**
7435 via **WWCR** p/d "Globe" cd. w/ schedule in 2 mo.
(Barto-CT). **WCSN** 9840 f/d cd. in 52 ds. for ms.
(Romeo-NY). 9350 f/d cd. in 76 ds. for ms. (Palmer-
IL). **WINB** 15295 f/d cd. w/ schedule in 50 ds. v/s
John Norris, V.P. (Humenyk-ONT). **WHRI** 7315 f/d cd. in
11½ mo. for ms. v/s Loren Holycross. (Lamb-NY). **WRNO**
13720 f/d cd. w/ stickers in 5 mo. v/s David Schnieder,
(Boulden-CA). 15420 f/d "DX Club Member" cd. w/ sticker
and schedule in 55 ds. for ms. (Carter-WA). **American**
Disident Voices (program) 7355 via **WRNO** n/d cd. w/ sked.
in 2 mo. (Barto-CT). **Space Shuttle Columbia** 7185.6 f/d
"Satellite and Shuttle" cd. w/ personal ltr. and info. pack
in 4 mo. for \$1.00. (Clar-NY)...Another interesting QSL. Sam.
KJES 11715 f/d postcard w/ schedule in 2 wks. for a taped
rpt. Addr: The Lord's Ranch, Mesquite, NM 88048. (Berg-MA).**USA (Pirates): Radio Free Euphoria** 7416 f/d ltr. in 35 ds. for
\$1.00. v/s Capt. Ganja. (Kusalik-ALB)...Love that name. It re-**1991 LENINGRAD HAMVENTION... BE THERE!**

TO RADIO	DATE	UTC	RS	MHZ	2 WAY
RICHARD A.	MARCH 17	0036	OSL NO.	9.755 VIA	RCL SWL
D'ANGELO	1991		12	SACKVILLE	DIGEST

Register to attend the 1991 Hamvention in Leningrad, USSR.
August 2 through 4. Group rates available. Offered exclusively by:**THE ASSOCIATION FOR INTERNATIONAL
CULTURAL EXCHANGE PROGRAMS**10 Carvin, Suite 33
Kirkland, Quebec
Canada H9H 4S4

Tel: 514-897-3735 - Fax: 514-897-0628 - Telex: 05-25134 MTLAIP

Deutsche Welle
Informationssender für die WeltRadio and TV from Germany: Radio und Fernsehen aus Deutschland
Radio e Televisão da Alemanha: Radio e Televisión desde Alemaniaminds me of the Kingfish
Taxi Company OSL a few
months ago. Very innova-
tive!...Sam. **EBO Radio**
7415 special "Ellen Bloom-
field" ltr. in 2 mo. for
\$1.00. (Kusalik-ALB). **WORK**
Radio 7415 f/d "Loading Dock/
Washrooms" photo QSL in 23 ds.
for \$1.00. (Kusalik-ALB). **Mid-**
nite Radio f/d cd. in 7½ mo.
for ms. (Clar-NY).



FORCES RADIO

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

The Radio Division
 of
SJSVC

USA (Pirates): CNBS/KNBS 7413
 f/d "Map of Canada" ltr.
 in 32 ds. for \$1.00. (Kusa-
 lik-ALB).

UZBEKISTAN: Radio Tashkent
 17745 f/d cd. w/ schedule
 in 218 ds. (Schwartz-NY).
Radio Moscow 12005 via
Tashkent f/d cd. in 2 mo.
 (Barto-CT).

VATICAN CITY: Radio Vatican
 11830 f/d "Santa Maria di
 Galeria" cd. in 2 mo. for
 1 IRC. (Pankake-MN). f/d cd.
 of "Pope John Paul II" w/

schedule and stickers in 92 ds. (Poston-IA).

WEST BERLIN: RIAS 6005 f/d "Building" cd. in 35 ds. for 2 IRCs. Also
 rcvd. station info. (Comeau-MA). f/d cd. w/ stickers and brochures in
 33 ds. for 2 IRCs. (Clar-NY).

YUGOSLAVIA: Radio Yugoslavia 9555 and 11885 f/d "Danube Fest" cd. in 4
 mo. (Barto-CT).

VERIFICACIÓN DE
 RECEPCIÓN DE:



Radio Santa Cruz

DATE RECEPCIÓN: 23 Febrero 1992
 HORA DEL "G.M.T.": 10:00-10:30
 FRECUENCIA: 6.135 kHz.
 TRANSMISOR POTENCIA: 10 kw



Afectuosamente,

[Signature]

ANTIGUA: Deutsche Welle 6040 n/d cd. in 67 ds.
 for 1 IRC. (Palmer-IL).

ASIATIC RUSSIA: Radio Moscow 15425 via **Petro-
 pavlovsk-Kamchatsky** f/d "Arbat Square" cd.
 in 47 ds. for \$1.00. (Palmer-IL). 15580 and
 15405 cd. w/ schedule and a "Cookalong"
 recipe book; ret in 62 ds. (Schwartz-NY).

AUSTRALIA: Radio Australia 7240 via **Brandon**
 f/d ltr. w/ "Wilderness" cd. in 38 ds. for
 1 IRC. (Palmer-IL).

BUHUTAN: BBS 5025 f/d prepared ltr. was returned
 * in SASE in 5 wks. for \$1.00. Very happy to
 have a direct reply from this station! (Ho-
 ward-CA).

CZECHOSLOVAKIA: Radio Czechoslovakia 7345 via
Litomysl, 9810 via **Velkekostolany** and 11990
 via **Rimavska Sobota** f/d cd. w/ sticker and
 schedule in 2 mo. (Barto-CT).

ENGLAND: Radio Japan 6160 via **Skelton** f/d cd.
 w/ site in 6 wks. (Berg-MA).

A Monsieur John L. Sprullette
 R.P. # 1, Box 128
 PARKHEAD, NEW YORK 10541.
 D. S. A. A.

I guess this will end the QSL Column
 for this month. Hope everyone received
 what they wanted during the
 holidays. Best of DXing
 and QSLing to everyone.

Recuad de recepción
 Recuad d'interce.

Cher Monsieur,

Nous avons l'honneur d'accuser réception
 de votre rapport d'écouté du 20 Mars 1991 relatif à une émission en onde cour-
 te et captée entre QANB et QANB (CIC ou QIC) sur la fréquence de 7.205 KHz/
 correspondant à la bande de 47,66 m. et nous vous remercions de tout cœur de
 l'intérêt que vous portez à notre station.

Nos services techniques ont vérifié votre
 rapport qui est très complet, les détails qu'il comporte sont corrects, ils cor-
 respondent bien au signallement de notre station. Le Vex du Centre qui est un
 service public de l'Etat n'a pas d'emblème particulier et ne délivre pas de
 carte Q S L. Nous vous prions de se pas nous en tenir rigueur. Nous espérons
 que cet accusé de réception constitue un témoignage éloquent à vos compatriotes
 de classer ces ondes courtes radiophoniques. Nous vous souhaitons bonne chance.

Veuillez agréer, Cher Monsieur, l'expres-
 sion de notre considération distinguée.

LE CHEF DE SERVICE DE LA
 LOGISTIQUE, s.l.

WOLFGANG KANNO - *[Signature]*



DIRECTEUR REGIONAL, s.l.
 DE L'OSST

NASWA Scoreboard

Jerry Lineback
6361 Shore Drive
Douglasville, GA 30135



Best wishes to all for the Holiday Season and welcome to another NASWA SCOREBOARD. This month the SPOTLIGHT is on Oceana. Please note that CH=Countries heard and CV=Countries Verified. All country counts are according to the NASWA Radio Country List. Please be sure that you have adjusted your totals in accordance with recent changes in the country list reported in the Journal. I suspect a lot of you added St. Helena to your list in October as I did. The next deadline for the SCOREBOARD will be February 15 for the March issue when the SPOTLIGHT will be on South America. Again have a joyous holiday and lots of good DX in the New Year.

Name, State	Totals		Oceana		Best Oceania QSL
	C/H	C/V	C/H	C/V	
James Young, CA	240	225			
Gordon Darling, P/NG	236	230	21	21	R. Cook Is.
Marlin Field, MI	230	228	22	22	R. Kerema 3245
William Flynn, OR	228	211	21	21	Honiara 5960
Jerry Berg, MA	225	224	19	19	Fiji
Gerald Bishop, FL	225	211	19	19	Cooks
Nobuaki Takahashi, Japan	223	194	20	18	R. Fiji
Mitch Sams, MO	223	174	20	19	R. Northern PNG
Steven Lare, MI	222	190	21	20	Marshall Is.
Al Miller, Jr., OH	217	209	20	20	Fiji
John Sgrulletta, NY	215	215	15	15	Cooks Is.
Donald Hosmer, MI	212	183	19	18	Cook Is.
Ron Howard, CA	211	194	21	20	Tonga
Sheryl Paszkiewicz, WI	210	203	20	20	Kiribati
Paul Buer, FL	210	197	19	18	R. Cook Is.
Kirk Allen, OK	209	200	19	19	RRI Biak 500W
Rick Krzemien, CA	209	196	20	19	Tonga/Marshall
Christos Rigas, IL	206	186	19	18	Cook Is.
Frank Orcutt, NY	206	175	18	17	RRI Serui
Jerry Lineback, GA	206	108	18	8	SIBS
Mike Hardester, NC	202	187	19	19	Fiji 3230
Robert Ross, Ont.	200	178	20	20	Tonga 5030
Fred Kohlbrenner, PA	200	168	16	15	R. Cook Is.
Jerry Klinck, NY	196	167	18	15	Fiji VRH9
Larry Kramer, CO	188	120	18	14	Fiji
Henry Michalenska, RI	184	153	14	12	Fiji 3284
Walter Kunz, PA	183	108	15	10	New Caledonia
Charlie Washburn, ME	182	145	15	9	Solomon Is. BC
Hadley Cress, VA	182	8			
Tom Laskowski, IN	177	141	19	17	RRI Fak Fak
Rev. John Eckert, PA	173	156	14	13	R. Cook Is.
Greg Hart, FL	173	124	15	12	RRI Wamena
Ichiro Maruo, Japan	172	111	19	16	R. Cook Is.
Jim Renfrew, NY	171	136	12	9	R. Solomons
Allan R. Loudell, DE	169	136	14	12	RRI Serui
Andy Rugg, Que.	165	151	7	7	ABC Perth
Carl Mann, NB	157	140	12	12	R. Malaysia
Daniel Prisco, PA	156	133	9	9	SIBC Solomon Is.
Carl Radtke, WA	153	153	10	10	Cook Is. 500W
Thomas Ross, IL	152	131	17	16	R. New Ireland
Nick Grau, MA	150	99			
David Morby, NY	149	42	10	4	NBC P/NG
Bill Taylor, PA	148	114	12	10	Cook Is.
Stephen Price, PA	142	112	9	9	R. Kiribati
Ross Comeau, MA	142	93	9	6	NBC Port Morsby
Richard Hankison, KS	138	113	14	13	Radio Kiribati
Robert Landau, NJ	137	120	8	8	VTL4 P/NG

Name, State	Totals		Oceania		Best Oceania	QSL
	C/H	C/V	C/H	C/V		
Richard Wallace, CT	137	85	7	6	SIBC Solomon Is.	
Robert A. Wallace, CA	134	103	15	12	Cook Is.	
Bill Kurrasch, NY	133	97	7	5	SIBC Solomon Is.	
Joe Kremer, IN	131	85	10	6	Solomon Is.	
Jerry Ervine, TX	115	65				
Jason Moore, KY	113	62	9	4	VNG	
David Galletly, NY	110	88	6	6	RFO Tahiti	
Robert Carlsen, OH	110	87	8	8	Solomon Is. BC	
Barry Schwartz, NY	108	84	5	5	Tonga B.C.	
Mark Spat, NH	108	26				
Scott Helm, KS	99	70	7	5	KTWR	
Lowell Pankake, MN	99	13	8	0		
Brian Boulden, CA	92	78	9	7	VLQ9	
Bruce Orenstein, NY	91	71				
Kevin Murray, OR	87	73	9	8	R. Manus	
Royal Berglee, ND	81	51	5	5	RNZ	
Mark Anderson, MI	62	48	4	4	VNG Australia	

Thanks to all who contributed to this month's SCOREBOARD. You must update your totals at least once a year to remain listed on the SCOREBOARD. When updating, please update all totals. Remember the next deadline is February 15 and the SPOTLIGHT is on South America. Holiday 73s: *jaZ*

FOR SALE: Drake R-4 receiver with crystals for 90, 75, 60, 49, 41, 31, 25, 21, 19, and 13 meter bands along with standard ham bands. \$150.00 or best offer. Bill Hohnstein, 33 Main, Seward, NE 68434. Phone (402) 643-3338.

FOR SALE: Yaesu FRG-7700 receiver. Gilfer modified with MU-7700 memory unit, FRT-7700 tuner, FRA-7700 active antenna, dust cover, manuals and original boxes. Best offer takes everything. Peter Giacobello, 30 Peconic drive, Massapequa, NY 11758-8317. Phone (516) 798-6429.

FOR SALE: Custom Beam Heading listing short path and beam headings for over 500 locations listed by ham prefix. \$3.75 postpaid. Frank Aden, Jr., 4096 Marcia Place, Boise, ID 83704.

FOR SALE: Kenwood R-5000 in perfect condition. Includes factory installed 4 kHz filter, mobile modification (off car cigarette lighter), YK88-A1 better 6 kHz filter, and the MFJ-959B tuner/preamp. Both shipped in original cartons with manuals, First \$750.00 gets all. Shipping included. Jerry Klinck, 43 Lein Road, West Seneca, NY 14224. Phone (716) 675-7509 mornings.

FOR SALE: Panasonic RF-2200 receiver. Used very little, but could use a cleaning. Manual included. \$50.00 plus shipping. John Murphy, 201 West Glencove Avenue, Northfield, NJ 08225.

FOR SALE: ICOM R-71A. Gilfer customized with 4 kHz and pre-amp effective into AM band. A-1 shape. \$600.00 including shipping. ALSO: Customized Beam Headings (from/to) and distances (MI/KM) to over 475 WRTH-92 transmitter sites including new Russian Republics. ITU Country Codes included. Send your location or coordinates, \$6.95. WRTH-91, \$10.95. "Passport to World Band Radio", '89, '90, '92, \$6.95 each. NASWA Journal '91 complete, \$11.50. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2 Box 3-B, Tryon, NC 28782. Phone (704) 894-3398. No collect calls, please.

FOR SALE: Drake R-7 receiver in "near mint" condition with selectivity filters installed for 4, 2.3, 1.8, and .3 kHz. This R-7 is in perfect working order and has been my primary DX receiver in recent years. \$650.00 includes receiver, manual, and shipping. Mike Leventow, 2829 Connecticut Avenue NW Washington, DC 20008. Phone (202) 387-4312.

FOR SALE: Cassette tapes of several Indonesian AM and FM stations which I received in Jakarta and Bali late in September. US\$8.00 includes shipping. Juichi Yamada, 10 Watamachi, Yamatokoriyame-city, Nara 639-11, Japan.

WANTED: Magnavox D2999 in mint condition and \$200.00 price range. Roger Giannini, 121 North Park, Springfield, IL 62702.

Contributors' Page

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



LOGGINGS CONTRIBUTORS - JANUARY 1993 - DEADLINE 10th of MONTH

The following members contributed loggings:

- Brian ALEXANDER, Mechanicsburg, PA
Mark ANDERSON, Prescott, MI
Guy ATKINS, Bonney Lake, WA
Jerry BERG, Lexington, MA
Juhanna BICKUS, Herndon, VA
Michael BILEC, Port Vue, PA
Brian BOULDEN, Fairfield, CA
John CARSON, Norman, OK
Jim CLAR, Rochester, NY
David CLARK, Newmarket, ONT
Richard D'ANGELO, Wyomissing, PA
William DAVENPORT, Nashville, TN
Gerry DEXTER, Lake Geneva, WI
Felipe FLOSI, Rio de Janeiro, BRAZIL
Mike FRANZEN Wayzata, MN
Harold FRODGE, Midland, MI
Peter GRENIER, Sparks, NV
Scott HELM, Kansas City, KS
Mark HUMENYK, Weston, ONT
Richard JONES, Dayton, OH
Rufus JORDAN, Pittsburgh, PA
W. KARCHESKI, Holden, MA
Jerry KLINCK, West Seneca, NY
Ben KREPP, Watertown, MA
Marie LAMB, Brewerton, NY
Ernest LAWRENCE, Perry, NY
Harold LEVISON, Philadelphia, PA
Kevin MURRAY, West Linn, OR
E. NEWBURY, Gordon, NE
Tony ORR, Reston, VA
Dale PARK, Honolulu, HI
Sheryl PASZKIEWICZ, Manitowoc, WI
Rev. Ed POSTON, St. Charles, IA
Karl RACENIS, Livonia, MI
Chuck RIPPEL, Virginia Beach, VA
Doug ROBERTSON, Oxnard, CA
Mitch SAMS, Blue Springs, MO
Edward SHAW, Lexington, KY
Robert TUCKER, Savannah, GA
Dave VALKO, Dunlo, PA
Richard WALLACE, Danbury, CT
Mike WOLFSON, Ashland, OH
Juichi YAMADA, Nara, JAPAN
Andrew YODER, Chambersburg, PA
- NRD525 various Longwires
DX440 60' Random,
R8 R390A 90m T2FD Mini-Beverage
R8 HQ180A R390A 150' Longwire
ATS803A
DX380 Portable Antenna
RK641 MFJ956 Indoor LW
NRD525 NC183D ATS803A Sony 2010 AD Sloper 500' Bev
R8 ATS803A FRG8800 Eavesdropper 110' LW
R8 2-R7 HQ180C R8 Many, many antenni
R8 AD Sloper Farley Loop
ICF7601 AN-1
NRD525
R390A Homemade Active Whip
R71A AD Sloper
R71A DX302 AP4 Trap Dipole 185'/100' Random
FRG7 ATS803A MFJ1028A
R5000 AD Sloper 500' Beverage
D2935 AD Sloper AN60 Hot Wire
Sony 2010
DX302 Transoceanic 33' LW
R5000 AD Sloper
R8 R5000 HQ180A Sony 2010 350' Mini Bev 80' LW
NRD525 750' Beverage 500' Beverage
R600 MFJ16010 20m/90m LW
NRD525 DX440 70' LW
R8 R70 D2999
R8 Eavesdropper
R8 R5000 70' Window 66' Dipole
Sony 2010 MFJ16010 75' LW
R5000 ATS803A Rod Antenna
NRD525 NRD515 Eavesdropper Random
R8 Indoor Random Wire
R9000 Grundig 650 Eavesdropper 75' LW
HQ180A FT1000 130' Dipole Sloper Inv Bev
DX302 FRG8800 FRA7700 Longwire
HQ180 FRG7 Mini Beverage Farley Loop
R70 Homebrew PreAmp 50' Random
ATS803A
NRD525
R71 S108 MFJ102A DX440 LW TUN4
R5000 Sony 2010 125' LW
NRD525 10m long Dipole
R390A Sony 2010 130' LW

DXpeditioners this month include Karl Racenis from the M.A.R.E. DXpedition at Island Lake, MI, Jerry Berg & Ben Krepps from the BAD DXpedition at Barnard, VT and Andrew Yoder from Shartlesville, PA.

Welcome to several veterans of the hobby, as well as some new reporters! I think we get a pretty good mix of logs for all interests and equipment capability. My thanks to all who shared their logs during 1992 - you have helped alot of members.

Enjoyable listening & good DX -

ANARC CLUB LIST, now available from Rich D'Angelo, 2216 Burkey Dr., Wyomissing, PA 19610 for SASE in U.S. or 1 IRC outside U.S. Pirate Pages is now an Associate Member. Info on BBS, Meetings & Committees. Covers all phases of the listening hobby.

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



Last month's 4960 should've read R. Fantasia. Sorry, Harold.

- 1610 ANGUILLA Carib. Beacon 11/15 0500+ v'y strong (Krepp-MA)
1620 AUSTRALIA RPH 11/21 1210 tlk by Aussie, fade (Clark-ON)
1620 USA KATXSO 11/1 0150 experimental stn, PA addr (Yoder-PA)
1624 PIRATE WQNR 11/1 2300+ pop/rock, exc sig (Yoder-PA)
2310 AUSTRALIA Alice Spr. 10/21 0907 nx, ID, pops (Orr-VA)
11/15 0930 TP, nx, fab sig 1200 //2325 (Krepp-MA) same
day, could've knocked me over w/sig strength (Berg-VT)
12/6 1240 Air Supply, tlks, interview (Lamb-NY)
2325 AUSTRALIA Tennant Cr 11/14 0915 nx, mx (Krepp-MA)
2489.9 SULAWESI Ujung Pandang 11/9 1638 mx, IS, nx, ID, mx (Yamada)
3194.1h PERU Luz de la Vida 11/28 1010 campo mx, TC, IDs 2x1597 (Valko)
3204.4 JAVA Bandung 12/6 1540 Indo pops, ID, SCI, fair (Atkins-WA)
12/5 2152 EZL, SCI, nx, poor (Clark-ON)
3205 INDIA AIR Lucknow 12/6 1229 strong w/tlk not //4860 nx (Clark)
3205 NEW GUINEA R Sandaun 10/21 1105 nx, IS, amnts (Orr-VA)
11/21 to 1305* nx countdown, ID, instl NA (Valko-PA)
3222 TOGO R Kara 11/30 2220 hilife, PR amnts (Shaw-KY)
3222.9 SURDAS Mataram 11/22 2139 mx, IN tlks, faded (Clark-ON)
3224.9 SUMATRA Tanjung Pinang 12/6 2216 tlks, vcls (Clark-ON)
3230.2 PERU El Sol de los Andes 11/30 0958 folk song, TCs, ads,
ment Cosco, ID/promo, squeezed in by utes (Valko-PA)
3231.9 SUMATRA Bukittinggi 11/29 1540 Streisand pgm, nx (Atkins-WA)
11/14 2159 SCI, ID, nx //4719.3, poor (Clark-ON)
3249.8 HONDURAS Luz y Vida 11/18 1136 ID, tlk, kids singing (Wolfson)
3255 INDIA Shillong 11/29 1555 EG pgm, poss ID, jazz (Atkins-WA)
3255 LESOTHO BBC 11/30 0315 nx, cmtry (Shaw-KY)
3264.9 SUMATRA Bengkulu 12/6 1604 nx, anthem, ID, pops (Atkins-WA)
3277 KASHMIR Srinagar tent 11/29 1145 flutes, Hindi-like vcls
low mod, couldn't tell if //4860 1230 (Valko-PA) 11/14 1220
vcl, rel chants, Indian class mx, no 1230 nx (Clark-ON)
3279 MOZAMBIQUE Sofala 11/17 0305 nx, ment Sofala, TC, group song
rapid fade, poss Maputo 3338 same time (Sams-MO)
3279.8 ECUADOR LV del Napo 11/28 1000 Quechua tlks, good (Klinck-NY)
3280t CHINA Vo Pujiang 11/25 1215 CH YL w/mx //4950 (Klinck-NY)
3280.2 MOZAMBIQUE Sofala 11/30 0350 cmtry, song, TC (Shaw-KY)
3289.9 ECUADOR R Centro 11/8 0615 folk mx, ID, ads (Alexander-PA)
3300 GUATEMALA TGNA 11/30 0236 EG hymns, ID, addr (Lamb-NY)
3305t PAPOA R Western 11/17 1030 tlk, IS drums btwn tlk (Davenport)
3315p ADMIRALTY R Manus 1130 long long tlks (Orr-VA)
3316 SIPERA LEONE SLBS 11/14 0615 tlk, Afr mx, nx, ID (Lawrence)
11/30 2115 ltrbox pgm in EG, poor-fair (Shaw-KY) 11/14
2125 choral mx, documentary, nx, ID, pops (Krepp-MA)
11/22 2129 TC, ID, EG/vern tlks, poor (Karchoski-PA) 11/8
2155-2230* EG ID, class mx, TC, nx, rel song (Alexander-PA)
3330 PERU Ondas del Huallaga 11/18 0419 rel, mx, ltrbox, full
ID, NA (Flosi-BRAZIL)
3335t MOZAMBIQUE Maputo 11/30 0330 definite Afr. mx (Shaw-KY)
3335 NEW GUINEA East Sepik 10/23 1102 nx, IS, tlks (Orr-VA)
3339.9 PERU R Altura 11/14 0259 LA pops, ID, La Bamba (Valko-PA)
3345 MOLUCCAS Ternate 12/6 1311 YL w/EZL, fair (Clark-ON)
3355 INDIA tent Kurseong 11/15 1147 Indian singing (Berg-VT)
11/29 1225 Hindi vcls, Delhi nx, buzzing QR (Valko-PA)
variable freq 11/28 1230 ID, EG nx //3365 (Clark-ON)
3360 GUATEMALA LV de Nahuala 12/10 0140 lively mx, ID (Jordan-PA)
11/15 1130 campo mx, 1136 ID, quick fade (Krepp-MA) 11/28
1140 Quechua mx, ID, amnts, fair (Klinck-NY)
3365 CUBA Rebelde 11/16 0800 mx pgm (Boulden-CA) 11/19 1245
tlk, many ment Cuba //5025 (Rippel-VA)

3366 GHANA GBC-2 11/22 2156 EG ID, nx, soul mx (Karcheski-MA)
 3375 INDIA Guwahati 12/5 1235 EG nx //4860, lcl pgm (Clark-ON)
 3380 GUATEMALA Chortis 12/7 0130 lang tlk, ID, marimbas (Jordan-PA)
 3381 MALAWI MBC 11/17 0303 EG ads, ID, drum solo (Sams-MO)
 3384.9 SUNDAS: Kupang 11/29 1307 end nx //4753.4, poss ID (Clark-ON)
 3385 NEW BRITAIN RENB 11/19 1200 tlks, island mx (Rippel-VA)
 3394.8 ECUADOR R Catolica 11/28 0920 mx, ID, TC (Klinck-NY)
 3395.1 SUMATRA Tanjungkarang 12/5 2222 tlk, Muslim mx, strong peak (Clark-ON) 11/29 1623 Indo pops, ment Tanjungkarang (Atkins)
 3403.3 UNID: Peruvian 11/7 0958 campos & huaynos, no tlk (Valco-PA)
 3481.1 CLAND: Vo Natl Salvation 12/5 2215 //4449.9 (Clark-ON)
 3664.2v UNID threshold audio 11/29, 12/5 1240, rapid fade, obvious suspect is Azad Kashmir Radio (Clark-ON)
 3905p NEW IRELAND RNI 11/21 1140 C&W, pops, PD amnts (Karcheski-MA)
 3915 SINGAPORE BBC 12/6 1614 EG ID, tlk abt A-bomb (Atkins-WA)
 3935t NEW ZEALAND ZLXA 11/9 to 0902* EG tlk, some mx (Orr-VA)
 3940 CHINA: Hubei 12/3 to 1528* drama, ID, instl, amnts (Murray-OR)
 3945 VANUATU RV 11/9 0922 phone requests, FR ID, pops (Orr-VA)
 3955t RUSSIA Kazakh R II 12/11 Turk mx, tlk //5260 (Park-HI)
 3970 CAMEROON Buea 11/15 2221 FR tlk, EG pops TC, IDs (Clar-NY)
 3980 GERMANY VOA 11/25 0447 CZ nx, sports, ID (Lamb-NY)
 3985 SWITZERLAND SRI 11/25 0501 EG nx, ID, folk mx (Lamb-NY)
 3995 11/10: 0600 EG nx items (Bilec-PA) 12/6 pres 1622 Europops
 4000.1 GERMANY DW Juelich 12/7 2049 GM tlks, Mozart, ID (Lamb-NY)
 4012 SULAWESI Kendari 11/19 1250 mx, IS, nx, fair (Yamada-JAPAN)
 4039.2 PERU: Frecuencia Popular pres 11/28, 1011 poor w/vcls (Dexter)
 4040p 11/21: 1012 huaynos, TCs, 1036 ID, weak w/RTPY, tnx Hans (Valco-PA) 11/6 1013 huaynos, IDs, TCs, S5+ (Orr-VA)
 4435t PERU: Marginal 11/7 0152 mx pgm, echo amnts (Orr-VA)
 4435 RUSSIA: RM 11/28 1256 //4395 mx, IS, RS interview (Murray-OR)
 4435 BOLIVIA LV del Tropico 11/30 0310 LA mx, lang (Shaw-KY)
 4460 USA: WOCR spur 11/16 0105 EG: 7435-5935-1500. 7435-(1500x2)=4435 (Alexander-PA)
 4472 CHINA CPBS-1 11/6 2235 CH tlks //5320 (Orr-VA)
 4485p BOLIVIA R Movina 11/18 0259 rom mx, dance mx, TCs, tlk against drugs, 0347 ID (Flosi-BRAZIL) Tnx for writing! --sp
 4485t RUSSIA Petropavlovsk 11/28 1324 //4610 RS pgm abt Hendrix (Murray-OR)
 4505 PERU: R Gran Pajaten 11/18 1123 tlk, trumpet fanfare (Dexter)
 4593.5 PERU: R Horizonte 11/21 0937 echo IDs, brief mx (Dexter-WI)
 4625t UNID: Latin, campo mx, TC suggests Peru, not Bolivia (Valco)
 4635t BOLIVIA Aguadulce 11/30 0310 tlk, no mx (Shaw-KY)
 4665.7v TADZHIKISTAN Tajik R 12/11 1700 ID, poss IS, nx (Park-HI)
 4717 VIETNAM Son La BS 11/22 1258 tlks, fanfare (Clark-ON)
 4725 UNID 11/23 0222 rel tlk, lost at 0228 (Dexter-WI)
 4735 MYANMAR Vo Myanmar 11/25 1200 tlk lang (Lawrence-NY) 11/23 1213 Burmese mx, 1230 ID, fair (Klinck-NY)
 4753.5 CHINA: Xinjiang 11/6 1057 //5800 vcls, TP, -tlk (Orr-VA) 11/28 1100 CH mx, lang tlk-Uighur? (Klinck-NY)
 4753.6 UNID 11/28 1017 non-descript vcl, brief amnt, not Andean, lang? sounded like tape running slow, tones & gone (Dexter)
 4765 SULAWESI U-P 11/21 1235 Indo mx, YL tlk, poor (Klinck-NY)
 4770 CONGO Rdf Congolaise 11/12 2215 EG nx, FR rap (Frodge-MI)
 4770 GABON RTV Gabonaise 11/12 0600 IDs, nx over ute (Davenport) Are you sure this wasn't 4777? --sp Bill says his present rcvr isn't digital, that explains it.
 4770 NIGERIA Kaduna 12/6 0548 EG speech, ID, song, nx (Murray-OR) pres 11/22 2209 EG reggae, vy hyper DJ (Karcheski-MA)
 4775t BRAZIL Portal da Amazonia 11/12 0048 futbol, ment Amazonia (Clar-NY)
 4775.4 INDIA Guwahati 12/5 1207 Indian vcl (Clark-ON)
 4777.2 JAVA Jakarta 11/27 1239 Indo pops (Clark-ON)

- 4780 NORTH KOREA R Pyongyang 11/30 1201 IS, anmt, anthem, tlk (Valko-PA) 11/10 1208 tent KR tlks, vcls (Orr-VA)
- 4785 AZERBAIJAN Baku 11/22 0345 tlk, ment Azer. folk mx (Peck-NY)
- 4789.6 IRIAN JAYA Fak-Fak 10/21 1145 lagu pops, ID, nx (Orr-VA) 12/5 2108 Indo pops, IN tlks (Clark-ON)
- 4795 CIS W 11/3 2308 //4860 mx, IDs, press review (Clar-NY)
- 4795p CAMEROON Douala 2225 FR tlks w/RTM (Dexter-WI)
- 4795 GERMANY RM 11/9 2105 EG mx, IDs, Nx & Views (Orr-VA)
- 4799.8 GUATEMALA Bucars Nuevas 11/8 to 0331* mx, IDs (Alexander) 11/28 1117 Quechua rel 2x, tlk, IDs (Klinck-NY)
- 4800 CHINA CPBS 11/21, 1428 CH tlks, mx (Poulden-GA)
- 4800 EQUADOR R Popular 12/3 1039 dedications, IDs (Lamb-NY)
- 4800 INDIA Hyderabad 11/14 1233 EG mx mx w/CH stn (Clark-ON)
- 4800.7u PERU Onda Azul 10/21 0954 campo mx, poor mod (Orr-VA)
- 4805t BRAZIL Rdf Amazonas 11/12 0141 ment Amazona, mx (Davenport)
- 4810 SOUTH AFRICA 11/2 0012 EG/AM pops, IDs, TC (Clar-NY) 11/25 0139 ltrs, ID (Frodge-WI) 11/28 0245 EG pops, ID (Racenis-WI) 11/5 0328 trad mx, animal sounds, nx (Karcheski) 11/15, 2207 R Allegro/Orion class mx, IDs (Lamb-NY) 11/6 2300 EG IDs, pops, ads, TC (Alexander-PA) 11/16 2300 IDs, ads, "Breakfast Show," "Lifetime" (Davenport-TN)
- 4815 BRAZIL Rdf Londrina 11/24 2344 phone ins, pops, IDs (Clar-NY)
- 4815 GHANA M206 RTV Burkina 12/10 0628 FR reggae, ID, nx (Lamb)
- 4810.8p EQUADOR Paz y Bien 11/7 1028 church bells, prayers (D'Angelo)
- 4820 HONDURAS HRVC 11/30 0345 EG Back to God Hour, ID (Racenis) 11/11 2357 SP tlks abt Bible (Peck-NY)
- 4825t BRAZIL Cancao Nova 0531 drama pgm (Dexter-WI) Tnx!--sp
- 4830 BOTSWANA RB 11/5 to 2200* EZL, TC, rel tlk, NA (Valko-PA)
- 4830 THAILAND RT 11/27 1250 trumpet, ID, IS, into Cambodian (Clark-ON)
- 4835 SARAWAK RTM 12/5 1547 pop mx w/YP in lang (Grenier-NV)
- 4845t GUATEMALA R Kekchi 11/19 0130 SP rel, IDs, ads (Davenport-TN)
- 4845 MAURITANIA ORTM 11/11 0002 AR pol. tlk, IDs (Clar-NY) 12/5 *0629 IS, AR ID, Koran, nx, 0730 FR nx (Murray-OR) 11/28 0633 Koran, Exopops, trad native mx, IDs (Atkins-WA) 11/15 2240 AR mx, 2301 ID, vy good (Wallace-CA) 11/30 2340 mx, ID, regional nx (Atkins-WA) 11/10 2347 tlks, folk mx, ment Mauritania (Peck-NY)
- 4854.8 MOZAMBIQUE RM 11/14 0253 xylo IS, IDs, NA, anmts (Valko-PA)
- 4860 RUSSIA RM 11/6 2100 ticks, chimes, EG ID, nx (Valko-PA) 11/20 2245 EG feature, ads //9860 (Alexander-PA) 11/15 2140 EG lesson, ID (Rippel-VA)
- 4863.8 MOLUCCAS Ambon 11/16 1219 Indopops, ID, drama (D'Angelo-PA) 1322 tent love songs, brief anmt (Dexter-WI) 11/23 1401 lcl nx, NA, lcl ID (Yamada-JAPAN) 11/6 2125 Indopops, bells ID, tlk, decent sig (Valko-PA)
- 4865 COLOMBIA LV del Cinaruco 11/15 0024 sports interview (Bickus)
- 4866.5p IRIAN JAYA Wamena 11/8 1200 nx, anthem, EZL (Clark-ON)
- 4870 BENIN ORTE tent 11/12 0540 tribal mx, ment Benin, poss ID (Davenport-TN) 11/17 2216 FR tlks, drum/pipe, ID (Wolfson)
- 4871.4 EQUADOR Centinela del Sur 11/13 to 0415* speech, ID, ads, nx, Fair (Jordan-PA) 11/15 0050 ads, jingles, IDs (Alexander)
- 4871.5 MICARAGUA R Miskut 11/28 1109 tlk abt econ, ID, TC (Klinck)
- 4874.6 IRIAN JAYA Sorong 10/23 1115 lagu pops, ID (Orr-VA)
- 4875 CHINA Vo Jintling pres 11/18 1204 CH nx, jammed (Wolfson-OH) 10/30 1150 IS, anmt, IDs, flutes (Clar-NY) 10/23 *1140 theme, chimes, IDs, TP, nx (Orr-VA) 12/6 1206 nx, folk mx from var ctries, ID (Lamb-NY) 11/22 1220 ballads (Klinck)
- 4875.3 BOLIVIA La Cruz del Sur 11/6 to 2359* campo mx, ID (Orr-VA)
- 4880 BANGLADESH RB 11/8 1149 Koran, 1252 EG nx, wx (Clark-ON) 11/6 1154 ment Bangladesh, subcont vcls (Orr-VA) 11/22 1218 long tlk, ID, nx, lcl vcls (D'Angelo-PA) 11/25 1240 EG subcont mx, many IDs, Koran 1300 (Lawrence-NY) 11/22 1240 powerhouse sig, EG ID, wx, audible past 1430! (Clark-ON)
- 4880y CIAND Vo Mojahed 11/29 1620 Farsi tlk, mx, //5070 jammed (Yamada-JAPAN)
- 4880 EQUADOR RM Espejo 11/11 0143 mx, echo tlk, ID (Dexter-WI)

4880 ECUADOR RN Espejo 11/14 0248 drama, sfx, IDs, slogans (Clar)
11/6 2335 tlks, TC, full ID (Orr-VA)

4881.2 IRIAN JAYA R Saura Kasih Agung 11/21 to 1158* anmts (Clark)

4884.9 COLOMBIA Ondas del meta 11/5 1015 ranchera mx, ads, ID
(Alexander-PA) 11/25 1058 ID, tlk (Wolfson-OH)

4890 GABON RFI 11/13 0435 nt, ID, slogan, Afr. mx (Lamb-NY)

4890t PERU R Chota 11/15 to 0302* mx, anmts, tent ID (Alexander)

4890 PAPUA NBC 11/26 1240 PD tlk, EG ID (Klinck-NY)

4893.2 PAKISTAN RP 11/27 1533 Urdu/EG mx, ID, nx, drama (Yamada)

4894.6 VIETNAM Hanoi HS 11/6 1141 VT tlk, pops //10059 (Orr-VA)

4899.9 ECUADOR LV Saquisili 11/30 1118 mx, ID, TC (Valko-PA)

4899.5 UNID San Ignacio? 11/6 1029 flutes, poss ID, fadeout time
suggests Bolivia or Southeast Peru (Valko-PA)

4900 CHINA Vo Strait 11/20 1455 CH tlks, ment Taiwan (Grenier-NV)

4904.5 CHAD RN Tchadienne 11/12 0428 FR NA, ID, freqs (Karcheski)
11/12 0500 FR ment Chad, Afr. mx (Davenport-TN) 12/6
0545 Afr. rhythms, ID, nx (Racenis-MI)

4909.7 CAMBODIA VOPC 11/10 1131 Khmer drama, echos, ment Phnom
Penh, great S7+ sig (Orr-VA)

4910 INDIA Jaipur pres 11/28 1205 tlk, Hindi mx, nx (Valko-PA)
11/15 1235 Hindi nx //4860 but no EG nx 1230 (Clark-ON)
pres 11/3 1516 AIR ID, EG nx 1530 (Yamada-JAPAN)

4911.2p SUMATRA Bukittinggi 11/7 2040 Jak relay, IS, nx, dance (Yamada)

4914.5 PERU R Cora 11/14 0341 SP discuss, OA mx (Klinck-NY) 11/26
to 0504* ads, jingles, ID, NA (Alexander-PA)

4915 BRAZIL RN Macapa 10/21 0803 echo anmts, ID, pops (Orr-VA)

4915 CHINA Guangxi 12/5 1552 CH tlks (Grenier-NV)

4915 GHANA GBC-1 11/29 0537 choral mx, kids narrating, ID (Lamb)
11/11 to 2301* Afr. mx, EG nx, NA (Davenport-TN) 11/8
2241 ID, rel tlk, hymns (Clar-NY) 11/27 2255 EG nx, ID
(Racenis-MI)

4920t AUSTRALIA Brisbane 11/14 1224 EG tlk, poss ment ABC (Lamb-NY)

4920 ECUADOR R Quito 11/12 0200 ID, ballads (Davenport-TN)
11/17 0230 vcls, newspaper ad (Bickus-VA)

4920 INDIA Madras 11/28 to 1736* EG/Tamil ID, nx (Yamada-JAPAN)

4925 SUMATRA Jambi 12/1 1115 Islam mx, IS, nx, ID, pops (Yamada)
12/5 2205 Jak nx, ID, 2228 IS, ex-4926.9 (Clark-ON)

4926 BOLIVIA San Miguel 11/6 0946 anmts, full ID, TCs (Orr-VA)
11/6 0950 mx, canned anmts, ID (Valko-PA)

4929 CHINA unid 11/26 1120 var mx, tlk (Berg-MA) Honghe PBS
11/27 1242 tlks, down from 4930.6 (Clark-ON) pres 11/9
1105 CH tlks (Orr-VA)

4935 KENYA KBC 11/6 to 2107* EG pops, flute, TC, nx, ID (Orr-VA)

4940v VENEZUELA R Continental 11/29 0916 dedications, ID (Lamb-NY)
12/3 0930 kids vcl, perfume ad, salsa (Bickus-VA) 11/6
1112 LA pops, canned ID (Valko-PA)

4950 CHINA Vo Fujiang 11/21 1159 full ID, pres nx (Valko-PA)

4955 BRAZIL R Marajoara 12/9 0245 nx echo IDs, TCs, sports (Jordan)

4959.9 DOM REP Cima Ciento 11/6 0055 ID (Alexander-PA) 12/11 0115
Xmas mx, salsas, merengues (Bickus-VA) 11/3 0507 up tempo
mx (Dexter-WI) 11/14 0341 mx, ID, good (Klinck-NY) 11/5
1100 rom mx, singing ID (Valko-PA)

4964.3v PERU San Miguel 11/18 0236 2 IDs, anmts w/mx (Wallace-CT)

*4969.9p SABAH RTM 11/15 2150 Koran, instl, anmts, ticks 2200, poss
ID, SEAs pops, Koran suggests this, not China (Valko-PA)

4970 VENEZUELA R Rumbos 11/11 0135 pops, heavy fading (Bickus-VA)

4975 RUSSIA RMWS 11/25 1500 EG ID, Nx & Views (Yamada-JAPAN)

4975.9 COLOMBIA Ondas del Ortegaua 11/5 1015 ads, ranchera mx
TCs, ID as HJQA, Todelar promos (Alexander-PA)

4980 VENEZUELA Ecos del Torbes 11/15 0039 pops, pol tlk (Bickus)

4985 BRAZIL Brasil Central 11/14 0548 rom mx, ID, ads (D'Angelo)

4990 ARMENIA Yerevan 11/12 1540 lang & Armen. mx, ID (Yamada)

4990 CHINA Hunan 12/1 1105 CH tlks (Boulden-CA)

4990 NIGERIA Lagos 11/8 2203 "On the Line" pgm, ID (D'Angelo-PA)

4990 PERU Ancash 11/19 0131 ID, phone interview (Flosi-BRAZIL)

5000 AUSTRALIA VNG 11/28 1045 EG time, 1100 addr (Boulden-CA)

- 5003.4 RIO MUNI Bata 12/6 0530 mx, ID, anthem (Racenis-MI) 12/7
2103 ID, ment Bata, Afr mx (Lamb-NY) 11/7 to 2206* tlks
occas Afr vcl, IDs, NA (D'Angelo-PA) 11/15 to 2200* SP
tlk, Afropops (Alexander-PA) 11/11 2150 mx, freq info,
NA (Karcheski-MA)
- 5010 CAMEROON Garoua 12/3 2100 EG ID, mx, Afr. mx (Lamb-NY)
11/13 2112 EG/FR mx, ID (Karcheski-MA)
- 5010 ECUADOR Esc. Radiofon. Pop 11/19 to 0202* wild vcls, echo
anmts, def. ID (Jordan-PA) 11/15 2316 vcls/tlk, 2326 ID
(D'Angelo-PA)
- 5015.7 PERU Estacion Tarapoto 11/6 1040 US pops, TC, ID (Orr-VA)
5020t CHINA Jiangxi 11/6 2223 tlk, ads, mx (Orr-VA)
5020 COLOMBIA Ecos del Atrato 11/22 to 0355* mx, ID, NA (Alex.)
5020 ECUADOR LV del Upano 11/18 to 0225* tlk, instls, ID, NA
(Jordan-PA)
- 5020 SOLOMON SIBC 11/19 1450 EG lang lessons, Carpenters (Grenier)
5025 BEHIN Parakou 11/26 2110 FR tlk, mx, ID (Klinck-NY)
5025 BHUTAN BBS 11/28 1401 SEAS mx, EG anmts, ID, mx abt king,
another ID, rock mx (Murray-OR) pres 11/24 1230 Indian like
flutes, plucked strings, tlk in lang (Dexter-WI)
- 5025 CUBA Rebelde 12/1 0138 sports tlk, call in (Bickus-VA)
11/15 0210 vy exuberant mx pgm (Robertson-CA) 11/10-1925
nevermind. 11/19 0448 ID, lotsa tlk (Grenier-NV)
- 5025 PERU Quillabamba 11/10 1025 huaynos, TC, ID (Orr-VA)
5025 UNID Asian 1153 mx, tlks, poss Bhutan, blocked by Cuba (Berg)
5030 COSTA RICA AWR 11/29 to 0456* ID, drama, rel, NA (Alex.)
11/11 1118 "Quiet Hour," ID, "Your Story Hour" (Clar-NY)
- 5030.1 ECUADOR R Catolica Nac 11/28 to 0203* prayer, ID (Alex.)
11/8 1130 rel in EG, then SP (Klinck-NY)
- 5032 UNID primitive Asian chants 12/6 to 1328* sounded Viet.
no closing anmt (Clark-ON)
- 5035 BRAZIL Aparecida 11/23 2255 mx, ID, rel pgm (Klinck-NY)
5039.1 PERU Libertad 10/21 1008 flutes, huaynos, TC (Orr-VA)
5040 ECUADOR LV del Upano 11/27 to 0303* tlk, orch mx, ID (Alex.)
5040t RUSSIA R Ala 11/22 0203 R3 ment Belarus, Abkhazia, pops (Peck)
5045 BRAZIL Cultura do Para 11/17 0145 rock, echo anmt, ID (Wolfson)
5047 TOGO RTV 11/26 2100 FR ID, tlks abt var Afr cries (Klinck)
11/27 2255 salsa, FR ID, Elton John (Atkins-VA)
- 5050 COLOMBIA LV de Yopal 11/27 0310 ment Caracol (Lawrence-NY)
11/21 to 0400* mx, ID, ment Colombia, Caracol (Alexander-PA)
pres 0325 uptempo LA mx, 3-4 in a row (Dexter-WI) 11/14
0326 futbol, Caracol IDs (Clar-NY)
- 5055 COSTA RICA Faro del Caribe 11/17 0129 ad, ID, mx (Wolfson-OH)
11/17 0322 Billy Graham (Bickus-VA)
- 5060t CHINA Xinjiang 11/6 1207 MG tlk, CH vcls (Orr-VA)
5068.7t PERU Ondas del Sur Oriente 11/10 1013 OA mx, TCs (Orr-VA)
5075 COLOMBIA Caracol 11/4 0016 US election, IDs, TCs (Clar-NY)
11/23 0155 tlks, ID, poss nx (Klinck-NY) 11/17 0345 Miss
Colombia beauty pagent, Amazonas won (Bickus-VA)
- 5097 PERU R Eco 11/28 1009 would've been good but for CW (Dexter)
5145 CHINA Beijing 1112 MG poor w/QRM from SP phone tlk (Dexter-WI)
- 5244.3v PERU Tayabamba 11/14 1031 campo mx, TC, ID (Valko-PA)
5256.4 SUMATRA Sibolga 12/6 2238 vcls, SCI, nx (Clark-ON)
5260t KAZAKHSTAN Alma Ata 11/7 0108 soft instl w/screeching vcls
anmts (Orr-VA)
- 5313 UNID 11/9 0131 seemed SP, R Atalaya? (Dexter-WI)
5338.9 PERU R Lider 11/7 0957 huaynos, IDs, etc (D'Angelo-PA)
5339 PERU San Miguel de Arc. 11/21 1045 IDs, Andes mx, TC (Dexter)
- 5542.3 UNID 11/30 0410 SP W tlk, seemed //5522 (Shaw-KY)
5602.6 UNID LA 1015 tlks, once was Acunta here (Valko-PA)
5620.4 PERU Ilucan 11/15 1051 flutes, echo anmts (Valko-PA)
5799.9 PERU Nuevo Cajamarca 11/6 1003 OA mx, IDs, txn Hans (Valko)
1019 Andes mx, ID, choral anthem (Dexter-WI)
- 5850 USA WSHB 0144, 0600 EG ltrbox, nx (Lamb, Bilec)
5880 CHINA CPBS 1225 tlks, mx (Wallace-CT)
5882.2 UNID 0023 class mx (Sams-MO) Vatican?--sp Next deadline 1/22

International Band Loggings

5901-30000 kHz

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

- 5930 CZECHOSLOVAKIA RC in EG 0400, IS, ID, nx, feature (Tucker GA, Lamb NY, Bilec PA)
5955 COLOMBIA Caracol Villavicencio in SP 0240, tlk, nx, TC's, Caracol ID's, slogans, sound efx (Clar NY) in SP 0939, ballads, ID's, "Nada E Impossibile" (Lamb NY)
5960 CANADA R Japan relay in EG 0300, tlk re abacus, other features (Bilec PA 10/29)
5960 GERMANY Deut Welle in EG 0512, "European Journal", press items (Tucker GA 11/13)
59729 MYANMAR Myawadi B/C stn in lang 1313, ezl vocal rx, ID, IS 1329*, g even w/BBC splatter on 5965 (Clark ONT 11/28) also hrd at 1248 w/vocals, tlks (12/5)
59813nf? GUATEMALA LV de la Iglesia in SP 1210, preach'g, ID, relig mx (Wolfson OH 11/28)
6005 GERMANY RIAS Berlin in GM 2115, nx, pops, ID's (Paszkiwicz WI 11/25, Clar NY)
6010 MEXICO R Mil in SP 0955, ballads, ID's, fgy, QTH, chit chat, p (Jordan PA 11/22)
6010 BRAZIL R Inconfidencia in PT 0747, lcl pops, theme, choir, ID's (Lamb NY 11/14)
6015 CANADA R Austria relay in EG 0530, ID, features, nx (Bilec PA, Poston IA 11/27)
6025 DOMINICAN REPUBLIC R Amanecer in SP 2225, QTH, ID, mx, p (Racenis MI 11/14)
60455 COLOMBIA R Melodia in SP 0625, ancmts, ID, TC, pop mx, g (Alexander PA 11/22)
6055 CZECHOSLOVAKIA RC in EG 0700, tourism in Czech, other features (Bilec PA 11/25)
6060 AUSTRALIA RA In CH 1321, ID, western mx, DJ, M tlking slowly (Wolfson OH 11/15)
6085 CANADA Deut Welle relay in EG 0310, cmntry, press review, ID (Poston IA 11/27)
6100nf? HUNGARY R Budapest in EG 2229, "Newsreel Magazine", ID, //9835 (Lamb NY 12/7)
6110 ANTIGUA BBC relay in SP 0407, features, interview, story (Bickus VA 11/17)
6120 GERMANY Deut Welle in EG 0500, feature on trade unions, exc (Bilec PA 11/21)
61299 LAOS Lao Nat Radio in lang 1255+, tlk, strong w/CHMX off tl 1410 (Clark ONT)
6135 SWITZERLAND SRI in EG 0400, nx, ID, features (Poston IA 11/27, Bilec PA)
6160 NEWFOUNDLAND CKZN in EG 0230, class mx, ID, vocals (Shaw KY, Paszkiwicz WI)
6165 SWITZERLAND R China Intl in PT 2147, tlks w/some CH, ID's (Wolfson OH 11/16)
6195 SINGAPORE BBC relay in EG 1335, BBC nx w/feeds & taped stories (Wolfson 11/18)
6205 ECUADOR HCJB Quito in EG 0715, "Friends of Israel", ID, nx (Alexander PA 11/8)
62199nf? BOSNIA HERZEGOVINA R B/H hrd widely from 2155-0505, pips, ID on hr, pops & folk mx, nx (Alexander PA, Berg MA, Sams MO, Clark ONT, Krepp MA, Karcheski MA, Dexter WI, Paszkiwicz WI) Competition from Sofia and Budapest around 2200.
6220nf BULGARIA R Sofia in lang 2040-2155*, tlk, mx, ID, p w/RITY (Alexander PA 11/15)
6235nf BULGARIA R Sofia in FR 2000-2045, EG 2045-2130*, ID (Berg MA, Alexander PA)
6245 VATICAN STATE VR in EG 0600, features on various subjects, g (Bilec PA 11/24)
63296nf? PERU R Estacion C in SP *1100, ID, QTH Moyobamba, campo mx (Valko PA 11/30)
6500 CHINA Qinhai PBS in Tibetan 1256, class mx, pips, nx?, f (Clark ONT 11/22)
6560 UNIDENTIFIED Iraq? 0355-0415, pgming unusual for Iraq, Big Ben chimes 0400, ID? nx?, lang not AR, Turkish?, Kurdish?, drums, pgm change 0410 (Sams MO 11/24)
66522v VIETNAM Bac Thai B/S in lang 1317+, choral chants, audio fades due to mike problems?, UTE QRM at times, s/off 1359* (Clark ONT 12/6)
67244v PERU R Satellite in SP *2359-0240, campo mx, TC, ID, tlk, vocals, huaynos (Clar NY 11/15, Valko PA 11/9, Paszkiwicz WI, Peck/Bianco NY)
67544 PERU R La Merced in SP 0014, excited tlk, Andean mx, IDs (Dexter WI, Clar NY)
68035 PERU Ondas del Mayo in SP 0035, tlk, Andean mx, TC, flutes, huaynos, ID "Ondas del Rio Mayo", echo ancmts (Clar NY 11/21, Dexter WI 11/6, Paszkiwicz WI)
69102 EQUATORIAL GUINEA R Africa in SP 2136-2201*, jazz, SP pops, ID's (Clar 11/15)
7100 ANGOLA RN de Angola in PT/FR 2040-2200, pedantic tlks, nx on hr, sports event, Afro mx, into FR 2130, refs to Luanda, echo ID, crowing rooster, fgy, skeds, IS (Jordan PA 11/12) Wolfson OH also hrd stn in PT same time slot w/ID "R Scuta"???
7110 ETHIOPIA V of Ethiopia in Amharic 0348, tlk, folk mx, chorus (Peck/Bianco NY)
7115 BULGARIA R Sofia in BG 0422, jazz & BG folk mx, flute, drums, ID (Peck NY 11/11)
7125nf? INDIA AIR Bangalore in lang? *0058, IS, ID, fgy, mx (Clark ONT, Karcheski MA)
7135 FRANCE RFI in RM 2033, nx, cmntry, //9805 (Wolfson OH 11/23)
7150nf LITHUANIA R Vilnius in EG *0000, IS, ID, nx, cmntry (Jordan PA, Alexander PA)
7155 PORTUGAL R Free Europe in Latvian 0535, nx re Latvian parliament, feature re August 91 coup, g (Racenis MI 12/2) in RS 0130 (Dexter WI)
7180 HONG KONG BBC relay in EG/CH 0953, lang lesson, ID (Lamb NY 11/29) in EG 1612, nx re Britain, ID (Robertson CA 11/21) in EG 1405, nx, feature (Shaw KY 11/25)
7190 YEMEN Yemen R in AR 0313, tlk, AR mx, ID, nx headlines, f-g (Clar NY 11/15)
71902 EQUATORIAL GUINEA R Africa in EG 2205, relig pgm, ID, QTH, NA (Alexander 11/26)

72033 EQUATORIAL GUINEA R Africa in EG 2100-2300*, relig pgm, ID's (Alexander 11/28)
7205 GREECE VOA relay in EG 0135, Somali crisis, global water shortage (Bickus 12/3)
7250 VATICAN STATE VR in EG 0600, Pope sends Bishops to Bosnia, g (Bilec PA 11/19)
7255 NIGERIA VON in EG *0453, talking drum IS, NA, ID, fqys, pgm notes, mx, nx, mail (D'Angelo PA 11/12, Bilec PA 11/6, Racenis MI 12/6, Newbury NE 11/1)
7260 AUSTRALIA RA in EG 1400, relig pgm, lcl C&W mx, ID, IS, g (Shaw KY 11/25)
7265 BOTSWANA VOA relay in EG 0328, ID, mx, "Daybreak Africa", //7280 (Lamb NY 11/16)
7285 TAIWAN VoAsia in CH 0810, very long Oriental songs, ID, f-p (Franzen MN 11/30)
7290 BULGARIA R Sofia in EG 0402-0518, nx, polit analysis re Bosnia, sports, ID's, mx, "Life Styles", //9700 (Dexter WI, Lamb NY 11/17, Poston IA 11/28)
7325 UNITED KINGDOM VOA relay Woolferton in EG 0600, nx features, ID (Bilec PA 11/11)
7335nf? VATICAN STATE VR in Hindi? 0145, tlk, IS, into Bible pgm in EG (Peck NY 11/11)
7405 CHINA CRI Jinhua in EG 1518, "China Anthology", ID, mailbag (Robertson CA 11/15)
7440 ARMENIA R Yerevan in EG 2245, nx, ID, fqys, //9480, 12060 (Alexander PA 11/15)
7465 ISRAEL Kol Israel in EG *2230, Israeli basketball win over Portugal (Bickus VA)
7550 SO KOREA RK in EG 2226, cmntry on world Communism, mailbag, ID (Frodge MI 11/29)
8000 JAPAN JY Time Stn at 1330, code ID & voice every 10 min (Helm KS 12/13)
9022 IRAN VOIRI in EG 0040+, "Viewpoint" re pvt ownership & Islam, skinheads in US & Europe, ID, nx, Serbian war (Racenis MI 12/6, Peck NY 11/22, Jones OH)
9075nf? EGYPT R Cairo in SP 0137, tlk re Islam, ID (Peck 11/22) NOTE: Possible spur?
9170 CHINA CPBS Beijing in CH 0015-0104*, tlk, CH mx, p, //11000 (Alexander PA 11/28)
9275nf ICELAND Reykjavik in IC 2310-2333*, tlk, s/off theme, //11402 (Alexander 11/14)
9420 GREECE VOG in EG 0133, nx, cmntry on GK foreign policy, mx, g (Poston IA 11/28)
9480 ARMENIA R Yerevan in AR 2218, folk song, tlk, piano mx (Peck NY 11/22) in EG 2245, nx, ID's, fqys, QTH (Clar NY 11/29, Alexander PA 11/15, Racenis MI 11/17)
9510 SRI LANKA Deut Welle relay in Persian 1845, ID, IS, mx, 1850* (Wolfson OH 11/16)
9510 NEW ZEALAND RNZ in EG/Maori *1200, bird call IS, ID, cricket match, sport scores mx, jingle, "Summertime in NZ" (Jordan PA 12/4, Tucker GA 11/10)
9510 AUSTRALIA RA in EG 1632, sports rpt (Grenier NV) in EG 2300, ID, nx (Clar NY)
9525 POLAND PR Warsaw in EG 1759, IS, ID, pgm notes, nx, p (Karcheski MA 11/12)
9535 JAPAN R Japan in EG 1533, "Media Roundup" re SWL items, ID (Robertson CA 11/15)
9545 SOLOMON IS SIBS Honaira in EG 0937, island mx, ID, //5020 (Berg VT Dxpdtm 11/15)
9560 JORDAN R Jordan in EG 1455, US pops, ID's, pgm notes, nx, TC (Alexander 11/7, Valko PA 11/27) in AR 2315, nonstop ME mx, ID, s/off 2330, f (Clar NY 11/29)
9565 NORWAY RNI in EG 0200, nx, "Sounds of Norway", ID (Racenis MI, Grenier NV 11/16)
9570 ROMANIA RRI in EG *0400, ID, fqys, nx, features, //5990, 6155 (Lamb NY 11/30)
9580 GABON Africa #1 in FR 1916, drums, vocals, DJ, Afr mx, ID (Wolfson OH 11/16)
9580 AUSTRALIA RA in EG 1400, pop mx, features, nx, ID (Anderson MI, Grenier NV 12/5)
9580 ALBANIA R Tirana in EG 0230, nx re privatization, mx, IS, ID, WW II memorial pgm segment on Albanian cultural topics, //11840 (Jordan PA 11/12, Poston IA 11/27)
9580 YUGOSLAVIA RY in EG 0120, nx, features, ID, IS, ezl mx (Racenis MI, Lamb NY)
9590 NORWAY RNI in NO 2000, tlk re Mideast matters, ID in EG (Wolfson OH 11/16)
9590 NETHERLAND ANTILLES R Netherlands relay in EG 0330, ID, nx, "Media Network" (Poston IA 11/27, Newbury NE 12/1, Bilec PA, Carson OK)
9605 MADAGASCAR R Netherlands relay in EG 1847, cmntry, features, f (Poston IA 12/7)
9630 SEYCHELLES BBC relay in EG/PT 2023, tlk, pgm notes, ID, nx (Wolfson OH 11/16)
9635 PORTUGAL RP in PT *2200, multi-lang IDs, IS "April in Portugal", DJ, lite tlk, pop vocals/instrmls, nx 2205, interviews, g (Jordan PA 11/7)
9640 ANTIGUA BBC relay in EG 0500, nx, interview w/ F.W. DeClerke (Bilec PA 11/17)
9645 VATICAN STATE VR in FR 2046, African mx, tlks, IS, ID (Wolfson OH 11/16)
9655nf CHINA CRI Beijing? in EG 1256*, CH mx, ID, sked (Alexander 11/7) Move from 9665?
9670 GERMANY Deut Welle in EG 0500, various nx features, ID (Bilec PA 11/26)
9685 UKRAINE R Ukraine in EG 0100, nx, variety, anod 7 other // fqys (Shaw KY)
9685nf? COLOMBIA RN in SP 2352, LA pops, tlk, bell chimes IS?, ID (Clar NY 11/22)
97049 SAUDI ARABIA BSKSA in EG 2040-2101*, relig drama, ID, TC, world nx, AR mx, NA at 2100, back on 2102 in unidentified lang (Alexander PA 11/8, Clar NY)
9720 SRI LANKA SLBC in EG 0030, ID's, fqys, TC, relig pgm, swing mx (Clar NY 11/1)
97225 COSTA RICA AMR Vohope in EG/SP 2245-0110, marimba IS, SP ancmts 2251, into EG 2251, ID, QTH, relig pgm, to SP 2256, //118698 (Alexander 11/14, Lamb 11/12)
9725nf? UZBEKISTAN BBC Tashkent relay in Bengali? 1329, pips, flute mx, tlks, no ID for Tashkent but fits w/released sked (Dexter WI 11/24)
9735 MALTA Deut Welle relay in GM 0319, press review, ID, IS, interview (Lamb 11/30)
9760 ALBANIA R Tirana in AL 0210, tlk on education cost in Tirana, ad (Peck NY 11/23)
9815nf USA KCBI Dallas (reactivated) in EG 0205, ID, ubiquitous Dr Gene Scott sermons on 24 hr basis, //15375-s/on 1830 (Alexander PA 11/21, Berg MA 11/26)
9815nf CUBA RHC in EG 0008, nx, cmntry, ID, Cuban mx, ex-6000, //6060 (Alexander 11/21)
9835 HUNGARY R Budapest in EG 2205, ID, nx, sports, feature (Bilec PA, Lamb NY 11/30)

- 9835 RUSSIA AWR VotHope (via Novosibirsk) in Burmese/EG 1200, multi-lang ID's, slogans fgy, into EG 1300, fgy, sked, "Your Story Hour", f (Clar NY 11/27) in CH 2300, pips, fanfare, ID, g after Budapest s/off 2300, g (Clark ONT 11/14)
- 9845 PHILIPPINES FEBC in RS 1626 xmsn to C Asia, tlk, relig mx, f (Klinck NY 11/20)
- 9860nf RUSSIA R Aum Shinrikyo via R Moscow in EG 2050, Japanese produced relig pgm in EG, ID's, RM EG pgming at 2100, g (Alexander PA 11/15)
- 9860 MADAGASCAR R Netherlands relay in EG 0232, ID, nx, wx (Lamb NY, Poston IA 12/2)
- 9870 AUSTRIA RAI in EG 0333, Austrian SW Panorama, ID, sked, address (Lamb NY 11/24)
- 9870 ARMENIA R Yerevan in EG 0346-0358*, nx, folk mx, fgy, sked, NA (Clar NY 11/28)
- 9870 SO KOREA R Korea in EG 1635, "Sights and Sounds" feature (Grenier NV 12/12)
- 98778 DOMINICAN REP R Santiago in SP 0035, tlks, phone #'s, ads?, ID's, TC (Clar 11/2)
- 9910 INDIA AIR in EG 2136, "Film Songs", ID, nx, editorial, feature, f-p (Lamb 12/8)
- 9985nf? USA WHRI World Harvest R in EG 0313, sermon while looking for WENW (Paszkiwicz)
- 102012 LAOS R Lao Libr(t) in lang 0145, very low modul, p (Shaw KY) Only 100 watts!
- 11335 NO KOREA R Pyongyang in EG 0024, technology in Communist Korea (Racenis MI 12/6)
- 11500 CHINA CRI Beijing in EG 2011, nx re China, current affairs, p (Clar NY 11/13)
- 11550 TUNISIA RIV Tunisienne in AR 0438, Qu'ran, radio play, loud mx, ID, nx (Lamb NY) in AR 0705, nx?, prayer recitations, choral vocals, ID, flute/drums (Jordan PA)
- 11587 ISRAEL Kol Israel in EG *2230-2300*, cmntry on US election, g (Jordan PA)
- 11610 CHINA CPBS Beijing(t) in CH 0126, soprano/tenor duets, choral mx (Lamb 12/8)
- 11620 INDIA AIR Bangalore in EG 1840+, sitar mx, chorus, ID, nx, press review, mail, tlk on SWLDX (Bilec PA, Racenis MI, Shaw KY, Robertson CA, Bickus VA)
- 11660 BULGARIA R Sofia in EG 0250, tlk re Khristo Botev & BG opera (Peck NY 11/22)
- 11700 NO KOREA R Pyongyang in EG 2300, nx, cmntry, ID, f (Anderson MI 11/22)
- 11710nf UNITED ARAB EMIRATES Abu Dhabi in EG 2340, relig cmntry & mx (Frodge MI 11/10)
- 11715 PHILIPPINES VOA relay in EG 1330*, feature on arms control, ID (Lamb NY 11/14)
- 11715 IRAN VOIRI in EG 1225, ID's, fgy, sked, QTH, IS, 1228*, f (Clar NY)
- 11720 BULGARIA R Sofia in EG 0200, ID, tlk re embargo against Serbia (Peck NY 11/23)
- 11730 SEYCHELLES BBC relay in EG 0315, sports roundup, ID's, pgm notes (Clar NY 11/6)
- 11740 SWAZILAND TWR Manzini(p) in EG 0510-0530, relig pgm, QTH, p (Paszkiwicz 11/27)
- 11745nf? SO AFRICA Channel Africa in EG 0226, "Bohemian Rhapsody", nx, ID (Lamb NY 11/16)
- 11755 FINLAND RF in EG 1941, ID, cultural feature, IS, world nx, f (Lamb NY 11/24)
- 11800 AUSTRALIA RA in EG 1500, FR foreign minister denies sale of jets (Bilec 11/20)
- 11810 SEYCHELLES FEBA in SH 0312, IS, ID, inspirational hymns, f (Clar NY 11/28)
- 11815 BRAZIL R Brasil Central in PT 0653, fado mx, fqys, ID, //4985 (Lamb NY 11/14)
- 11835nf ECUADOR HCJB Quito in EG *0700, Friends of Israel pgm, nx (Alexander PA 11/15)
- 118357 URUGUAY R El Espectador in SP 2324, slogans, ID's, ads, pop mx, f (Clar 11/15)
- 11840 ALBANIA R Tirana in EG 0145, ID, folk songs in AL, f/w QRM (Racenis MI 11/22)
- 11840 SEYCHELLES FEBA in CH 1930, M w/harangue, mx bridges, ID 1949 (Robertson 11/11)
- 11860 IRAQ R Iraq Int in AR 0320+, AR mx, USA mx, EG ID/nx/cmnty 0404-0417, back to AR 0417, bubble QRM varies (Alexander PA 11/28, Jordan PA 12/1, Paszkiwicz WI)
- 11880 AUSTRALIA RA in EG 1720, mx, ID, fqys, nx (Robertson CA, Alexander PA 11/28)
- 11910 INDIA AIR Delhi in lang 0305, nx, Indian vocals, f-g w/QRM Budapest (Clark ONT)
- 11915 TAIWAN WOFC Taipei in EG 2202, tlks on China policy, ID 2214 (Wolfson OH 11/16)
- 11915 BRAZIL R Gaucha in PT 0250, tlk, futebol rpt, pips, ID, slogans, fgy (Clar NY) in PT 0937, tlk show w/local mx segments, ID's, f-g (Klinck NY 11/28)
- 11920 PHILIPPINES VOA relay in EG 1627, nx, ID, QTH, rap/jazz mx (Robertson CA 11/28)
- 11925 GABON R Japan relay in EG 2101, world nx, ID's, fqys, lang lesson (Clar NY 11/1)
- 119378 CAMBODIA R Phnom Penh in lang 1230, oriental mx, f-g (Krepp MA 11/14)
- 11945 UNITED ARAB EMIRATES Dubai in EG 0331, nx re Somalia, wx, ID, f-p (Lamb 11/25)
- 11945 CANADA RCI Armed Forces R in EG 2000, IS, ID, sked, fqys, nx, wx (Poston 11/27)
- 11950 CUBA RHC in EG 0050, cmntry re medicine & health problems in Cuba (Humenyk ONT)
- 11955 ANGOLA RN de Angola in PT 0520, Afro & pop mx, nx 0600 (Frodge MI 11/25)
- 11965 UNITED ARAB EMIRATES Dubai in EG 2205, Holy Koran, lang pgm (Franzen MN 11/13)
- 11995 PHILIPPINES FEBC in EG 1407+, relig pgm, insp mx, TC, ID, pgm notes, fqys, nx, (Clar NY 11/2, Racenis MI 11/19, Krepp MA 11/14)
- 12020 VIETNAM VoV Hanoi in EG *1230-1255*, organ mx IS, ID, fqys, pgm notes, nx, p (Jordan PA) in EG 2038, nx, cmntry, mailbag, into FR 2100, p (Clar NY 11/11)
- 12050 RUSSIA R Aum Shinriko in EG 2030, "Teaching of Truth", f (Newbury NE 11/1)
- 12085 SYRIA R Damascus in EG 2000, nx on fighting in Bosnia, mx, f (Bilec PA 11/21)
- 13635 SWITZERLAND SRI in EG 2000, debate on going into EEC (Bilec PA 11/21)
- 13655nf? NO MARIANAS KHBI Saipan in EG 2157, IS, ID, CSM nx features, g (Murray OR 12/4)
- 13705 AUSTRALIA RA in EG 2220, nx re sugar industry, classical mx, g (Bickus VA 11/18)
- 13720 GUAM KSDA AWR in EG 1846, insp Christian mx, ID, s/off 1859*, p-f (Clar 11/7)
- 13730 AUSTRIA RAI in EG 0130, nx, interview, Viennese waltz mx, ID (Robertson 11/15) in EG 0138, nx, mailbag, //98752 (Grenier NV 11/21)
- 13750 ISRAEL Kol Israel in HB 0350, lcl pop mx, ID, tlk, QRM, f (Peck NY 11/22)

- 15150 MADAGASCAR R Netherlands relay in EG 1429, review of Sony ICF-33, IS, ID, nx, wx update, current affairs feature, //9895 (Racenis MI 11/19, Clar NY 11/2)
- 151545 INDONESIA RRI Jakarta in IN 2238, lite mx, aerobics, nx, NA (Clark ONT 11/29)
- 15200 BANGLADESH RB in EG 1236, cmtry, features, subcont mx, ID's, sked (Clar NY)
- 15200 FRENCH GUYANA RFI in SP 2330, nx, mx, ID (Robertson CA 11/30, Bickus VA 11/16)
- 152099 IRAQ R Iraq Int in AR 2325, AR mx, multi-lang ID's, NA, p (Alexander PA 11/7)
- 15230 NORWAY RNI in EG 1600, tlk re Norwegian money, other nx, g (Bilec PA 11/21)
- 15260 CANADA BBC relay in EG 1631, Commonwealth rugby scores, ID, nx (Robertson 11/21)
- 15265 BRAZIL RN Brasilia in EG 1825, Lam mx, nx, ID, into PT 1921 (Alexander PA 11/20)
- 15300 PHILIPPINES R Veritas in Bengali? 0123, ID in EG, to VT 0125 (Wolfson OH 11/16)
- 15325 PORTUGAL R Canada relay in EG 1518, wx across Canada, sports (Humeny ONT)
- 15360 SINGAPORE BBC relay in EG 0049, Ken Bruce show, promo, ID, nx (Clar NY 11/1)
- 15375nf USA KCBI Dallas in EG *1756+, wall-to-wall Dr Gene Scott, ID, gospel mx, QRM
From Spain & Bonaire (Alexander PA 11/20, Dexter WI 11/26, Paszkiewicz WI 11/25)
- 15420nf? SOUTH AFRICA BBC relay in EG 1744, sports pgm, TC, ID, nx (Dexter WI) New relay?
- 15425 PHILIPPINES R Veritas in VT 0130, ID in EG but Vietnamese pgming (Wolfson 11/16)
- 15425 SRI LANKA SLBC in EG 2328-2359*, lcl mx, nx, ID, sked, Mon only (Alexander 11/2)
- 15445 BRAZIL RN da Brasilia in EG 1250-1320*, Br mx, ID's, QTH, g (Alexander 11/7)
- 15540 BELGIUM R Vlaanderen Int in EG 1924, travel, ID, QTH, TC, fgy, sked (Clar 11/27)
- 15575 SO KOREA RK in EG 0005, nx, ID, cmtry, mx, feature (Racenis MI 12/6, Bickus VA)
- 15610 GUAM KSDA AWR in EG 2256, organ mx, rel pgm, ID, QTH's (Lamb 12/7, Karcheski MA)
- 15780nf? ARGENTINA R Libertad Buenos Aires in SP 2241, MW relay to Antarctica?, various brief mx bridges between tlk, ID's 2208 & 2232, p-f (Dexter WI 11/21)
- 17440nf KIRIBATI R Kiribati in lang/EG 0030+, BBC nx?, pop & island mx, ID in accented EG 0133, choral singing w/harps, p (Atkins WA 11/30, Murray OR 12/5) in lang/EG 1835-2100+, DJ hosts mx, C&W, nx, island vcls, TC, f (Clark ONT 12/6) 500 watts!
- 17650 FRANCE RFI Paris in EG 1400, nx, ID, mx, interview w/artist (Jones OH)
- 17690 LITHUANIA R Vilnius in EG 0000, nx, ID, fgys, features (Lamb, Racenis, Tucker)
- 17690 UKRAINE R Ukraine Int in EG 0103, nx, ID's, "Ukrainian Diary" (Lamb NY 11/19)
- 17730 NORWAY RNI in NO 1902, nx, ID's, feature re Norwegian-Americans (Lamb 11/14)
- 17745 UZBEKISTAN R Tashkent in EG 1216, ID's, "Insight", folk mx, f-p (Clar NY 11/3)
- 17770 NEW ZEALAND RNZI in EG 0245, cricket match, mx (Shaw KY, Poston IA, Peck NY)
- 17790 SINGAPORE BBC relay in EG 0107, "Outlook", ID, "Waveguide", g (Lamb NY 11/19)
- 17815 BRAZIL R Cultura in PT 2342, Sarah Vaughan mx, BR pops, ID, //9615 (Lamb 11/22)
- 17860 RWANDA Deut Welle relay in GM 2036, soccer hilites, IS, TC, nx, g (Clar 11/13)
- 17870 SWEDEN RS in EG 1600, meeting of Europe Security Coun in Stockholm (Bilec PA)
- 21515 NETHERLAND ANTILLES RN relay in EG 1819, press review, ID (Robertson CA 11/14)
- 21515 VATICAN STATE VR in EG 1400, tlk on "Sacrament of Reconciliation", ID (Jones OH)
- 21590 AUSTRALIA RA in EG 0215, phone tlk re school vandals, f (Shaw KY 11/30)
- 21605 UNITED ARAB EMIRATES R Dubai in EG 1330, tlks on various subjects (Bilec 11/19)
- 21685 FRANCE Media France Intl in FR 1513, nx feed to Africa, ID (Dexter WI 11/23)
- 21785nf? RUSSIA V of Ethiopian Patriotism via RM in lang 1525, ezl instrmls, haunting deep horn, ID, polemics, speech w/voice overs, bells 1558, ID (Jordan PA 11/11)
- 21810 BELGIUM R Vlaanderen Int in EG 1400, nx, lcl wx, press review, sports recap, ID, (Tucker GA 11/13, Peck NY 11/14, Racenis MI 11/14, Bilec PA 11/20)
- 25730 DENMARK R Denmark via Norway in DN 1343, cmtry, taped interview (Humeny ONT)
- 25740 GERMANY Deut Welle in GM 1255, nx, interview, cmtry, f (Jordan PA 10/30)
- *****

CLANDESTINE STATIONS

- 6510 Sedaye Mojahed 0330 w/live speech, //4870, 50617 (Valko PA 11/28)
- 7020v V of Broad Masses of Eritrea in lang 0330*, IS, polit tlk, jammed, //7380 (Karcheski MA 11/6, Dexter WI 11/18)
- 7100 A Voz de Resis do Galo Negro in EG/PT 2059-2309*, short cntrys mixed w/dance & rap mx, ID's, //6045, 7100, Big Ben chimes, NA (Alexander PA, Valko PA 11/29)
- 7380 V of Broad Masses of Eritrea in AR, tlks, f, //7020 (Klinck NY 11/27)
- 9980 V of Iraqi People(t) in AR 2315, group singing, tlks, jammer (Peck NY 11/23)
- 17570 V of Ethiopian Patriotism in Amharic *1530-1559*, IS after R Moscow s/off, ID, nx, bells, long tlk from remote site, //21785, f (D'Angelo PA 11/8)
- 21785 V of Ethiopian Patriotism in Amharic *1530, tlk, f/o 1545 (Dexter WI 11/18)
- *****

Mike Franzen, 2296 Shadywood Road, Wayzata, MN 55391 wants to correspond by cassette tape with other NASWA members to exchange DX catches, tips, ideas, and other info. Ye olde ed had to hump this month in order to meet the deadline since the US Postal Service took 9 days to deliver a 2 Day Priority Mail package from Vern Hyson's QTH. So much for priority! I hope Express Mail is an improvement over the 2 day covered wagon! Happy 1963 to all!!

English Schedules

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



Prepared 12/27/92 at 8:57 PM.

This month, thanks to Shawn Faher (NY), Jon Klinedinst (PA), Marie Lamb (NY), Nigel Holmes (R Australia), Jonathan Marks (R Netherlands), Richard Measham (BBCM), Chuck Roswell (TWR Bonaire), Andy Sennitt (WRTH) and George Thurman (IL).

Notes

McDaniel Phillips, Director of Programming, announced that **Trans World Radio Bonaire** will cease SW operations on July 1, 1993, after 29 years of broadcasting on SW. On January 3, SW broadcasting will be reduced a total of 12 hours per day. On July 1, TWR Bonaire will launch the TWR Satellite Network, feeding audio to domestic stations in the target areas. The reasons



offered for closing SW: ① insufficient finances, ② surveys in the past few years indicate that "in this part of the world, shortwave is on the decline...", and ③ "change with purpose." This surprise was aired on *Chuck Roswell's Bonaire Wavelengths* on November 28 and 29.

Chuck Roswell, PJ4CR, runs the Divi-Divi net 1130 UT Tu-Th-Su on 14340 USB. In the December 1st net, I learned that eleven families will be affected by the SW closure. This includes Roswell, who will be assigned elsewhere. Additionally: ① The new



schedules have not been determined. ② The MW outlet will continue and probably expand once SW is closed, when the revenue from the MW outlet can be applied to expansion; the MW has been paying for costs of operating the SW outlets. ③ A proposal to use the SW transmitters to deliver TWR's message to western Africa was turned down.



From a follow-up fax of December 1: ① A final QSL similar to the one on the cover of the *November Journal* will be offered until June 30. Standard report procedures apply (>15 minutes outlining some unique items, and reply postage/IRCs are appreciated). ② *Bonaire Wavelengths* will continue (1130 Sat/0330 Sun) until June 30.

On the December 6 net, Chuck clarified the



Authorized Dealer
JRC
& Skywaves Antennas

PC Software by W2XQ
English Language SWBC Schedules
JRC/Kenwood Receiver Control
Utility Logbook

Send #10 SASE (2 IRCs)
for catalog or download of
the Pics OnLine! BBS at
609-753-2540.

statement that SW is on the decline. In the primary target area of SAm, those in the cities tend not to listen to SW due to noise and interference. There is concern that the rural listener will not be reached, and one of the early adjustments may be to use the facilities of KGEI to transmit the Portuguese service to Brazil. And the HF Broadcast Registration Forms have been submitted through the PTT channels to the ITU Geneva, showing that TWR Bonaire will be off SW as of 0400 UT July 1. The morning English language release is now shortened by 30 minutes per day.

The Voice of Indonesia has a decent signal here, first heard several days in a row over Thanksgiving: 20-21 with English to Europe. Heard on 9674.96 (fair) and 11751.85 (poor-to-fair). At the same time Jonathan Marks also hears a Brazilian on 9675. Listeners' letters are read Sunday 2030, for 10 minutes.

Marie Lamb comments that she hears R Ukraine at 00 UT on 17690 and 17605, in addition to the frequencies listed last month. At the time I prepared that list, those frequencies were not active—but they are now.

Shawn Fahrer notes a host of discrepancies in WHRI's listings, and this is simply due to my inability to get them to send a current WHRI schedule. Joe Hill, WHRI's Operations Manager, told me there are major changes as of January 1 and would fax the details by the NASWA deadline, but he failed to do so.

Shawn, now that WJCR has moved to 13595 from 7465, Kol Israel is quite readable on 7465 during our afternoon hours.

According to a *Media Network* report on December 17, the days of R Yugoslavia may be numbered unless the government in Belgrade comes up with some funding. Quoting a BBCM report, funds are short and the electric bills are mounting. And despite the budget cuts R Norway won't be dropping English altogether after all. In February English will revert to Sunday only.

I heard WEWN testing on 7540 from 2234 on December 17 and later from 0220 on the 18th, and on 17525 on the 18th at 0010 and 0130. Very good signals on 41m, but the lowering MUF caused the 17 m signal to fade into the noise later in the evening. The December 17th *Media Network* announced a WEWN schedule different than what I had been given before: 20 on 9540, 22 on 5825, 00 on 17510, 01 on 9825, 03 on 7520 and

05-10 on 7465. Apparently this will be the schedule for the first transmitter until the others come on the air. Regular programming was to commence 20 UT on December 28.

Updates to R Netherlands' CIS relay schedule published last month: The relay commencing 0030 runs to 0325 UT (not 0025 as I typo'd). On the 24th Jonathan Marks announced updates for the English segments: 0030 7305 and 0130-0330 12025 (ex-11675) and 0930-1125 9810 may be changed to 9860 kHz. Check both frequencies.

I think Kunitoshi Hishikawa of the NHK is responsible for ensuring that a R Japan schedule arrived before the schedule went into effect. Thanks! There a host of changes effective January 4, but no changes to the Canada relay.



By the time you read this, both the 1993 World Radio TV Handbook and the new

WRTH Equipment Buyers Guide should be at your favorite store.



Reality
Check

After more than six years I am closing the Pinelands RBBS telephone bulletin board system. All shortwave, amateur radio and scanner files have been moved to the Pics OnLine BBS in Atco, NJ. I will be a co-sysop of the SWL download section and will have a separate conference (#50) on the BBS. Pics OnLine sports 6 telephone lines, 4.2 gigabytes of file downloads and 200+ FidoNet echoes including SHORTWAVE and all of the amateur radio and scanner echoes. I've made arrangements to have Pics OnLine carry a nominal 600 messages in the SHORTWAVE echo so the messages do not roll over too quickly. The QWK mail reader format is supported; I recommend *1st Reader* available on the BBS. The BBS operates with six PCs on a LAN and is quite fast in assembling mail packets. (At 9600 bps it takes just 3-4 minutes to log on, grab two day's worth of FidoNet messages and log off—all with just one keystroke.) All these capabilities are more than I could hope to do with the Pinelands RBBS. This move is a win-win situation for both the callers interested in SW files and messages and for me. It frees me from the PC hardware game to concentrate on software development and related activities. Pics OnLine telephone numbers are 609-753-2540 (HST) and 609-753-1549 (V.32). Take a look.

English Language Schedules
 By Start Time, Changes Entered Between
 11/28/92 and 12/27/92
 Compiled by Thomas R. Sundstrom, W2XQ

Start Time (UTC)	End Time (UTC)	Country	Station	Freq. #1	Freq. #2	Freq. #3	Freq. #4	Freq. #5	Freq. #6	Freq. #7	Freq. #8	Target Area	Notes	Record Last Updated
0000	0100	Russia	R Moscow Int'l	17655	15425	12050	9870	9750	9725	9685	7295	World Service		12/5/92
0000	2400	USA	WJCR	13595	7490							neNAM/Eu/ME/CA/SA		12/9/92
0030	0430	Ecuador	HCJB	21455	17490	15155	15115	9745				NAM/SAm	#1&2 USB #3 SA	11/28/92
0030	0127	Netherlands	R Netherlands	11835	11655	9860	7305	6165	6020			sa/eNAM	1&3 Bonj#2&6 Maj#4 Alm	12/24/92
0100	0150	Germany	R Deutsche Welle	11865	9770	9700	9610	9565	9515	6145	6120	NAM		12/24/92
0100	0200	Russia	R Moscow Int'l	15425	12050	12015	9870	9725	9685	7150	7115	World Service		12/5/92
0130	0227	Netherlands	R Netherlands	12025	11655	9860						saS	#1 Chitaj#2&3 Mad	12/24/92
0200	0300	Russia	R Moscow Int'l	17890	15425	12050	11775	9830	9775	7150	7115	World Service		12/7/92
0230	0327	Netherlands	R Netherlands	12025	11655	9860						saS	#1 Chitaj#2&3 Mad	12/24/92
0300	0400	Japan	R Japan	17825	17810	17765	15325	15230	5960			GOS/NAM/CA/LA/Asia	Reg #1&4 #4 Fr Gu	12/24/92
0300	0400	Russia	R Moscow Int'l	17890	15425	12050	11895	9830	7150	7115		World Service		12/7/92
0300	0400	USA	VOA/AF	15115	11965	11895	11835	9885	9575	7405	7280	Africa	15752 USB -0700	12/5/92
0300	0330	USA	WINB	15145								SAm	We-Mo	12/23/92
0330	0430	United Kingdom	BBC	12095	9915	7325	5975					WS: NAM/CAM/Carib		12/23/92
0330	0400	Japan	R Japan	17810	17765	15230	5960					GOS/Asia/NAM	#4 v Canada	12/24/92
0400	0500	Russia	R Moscow Int'l	15425	11895	9870	9735	9665	7150			World Service	#1 wNA	12/5/92
0400	0430	USA	VOA/AF	15115	11965	11850	11835	9885	9575	7405	7280	Africa		12/5/92
0400	0700	New Zealand	R New Zealand Int'l	15120								Pacific		12/10/92
0400	0500	USA	WRNO	7395								NAM/CAM		12/23/92
0425	0440	Italy	RAI	7275	5990							Mediterranean		12/27/92
0500	0700	Cuba	R Havana	9510								wNAM		12/11/92
0500	0600	Japan	R Japan	21610	17860	17825	17810	17765	15230	7230	6085	GOS/As/NAM/Eu	#7&8 v UK	12/25/92
0500	0600	Russia	R Moscow Int'l	17570	15455	12055	9890	9870	7180	7170	7150	World Service		12/8/92
0500	0530	Switzerland	Swiss R Int'l/EU	9535	6165	3985						Eu		12/26/92
0800	1000	USA	VOA/ME	21570	21455	17770	15195	15160	11735			ME/NAl/Eu		12/5/92
0900	1000	Japan	R Japan	21610	17860	15270	11890	11815				GOS/As/Ov/Eu		12/24/92
0900	0930	Switzerland	Swiss R Int'l	21820	17670	13685	9560					AusNZ		12/26/92
0930	1027	Netherlands	R Netherlands	11895	9810	9720	7260					Pac/e&seAs/FE&eAs	#1&3 Bonj#2&4 CIS	12/24/92
1030	1127	Netherlands	R Netherlands	9810	7260							e&seAs/FE&eAs	v CIS#1 may be 9860	12/24/92
1055	1300	Netherlands	Amillies Trans World Radio	15345	11815							e&seAs/NAM/Carib	-1230 as of 1/3/93	12/14/92
1100	1200	Japan	R Japan	21610	11840	11815	9750	6120				GOS/Asia/NAM	#5 v Canada	12/24/92
1100	1200	Russia	R Moscow Int'l	21785	17775	17755	17600	15550	15510	13650	12070	World Service		12/5/92

1200	1300	Russia	R Moscow Int'l	21785	17840	17735	17600	15540	15520	15510	12070	World Service	12/5/92	
1300	1400	Russia	R Moscow Int'l	21785	17840	17775	15550	15540	15210	11890	11710	World Service	12/5/92	
1300	1700	USA	WHRI	9465								eNAm	12/16/92	
1400	1500	Russia	R Moscow Int'l	21785	17860	17730	15540	15480	15465	15210	9890	World Service	12/5/92	
1400	2130	USA	KCBI	15375								Canada	12/18/92	
1430	1600	Australia	R Australia	13755	11855	11800	9580	9560	7260	7240	5995	As/Pac/PapNG	12/19/92	
1500	1600	Japan	R Japan	15355	9535							GOS/sb/NA/Am	12/24/92	
1500	1600	Russia	R Moscow Int'l	21755	15550	15540	15480	15465	15210	12065	9890	World Service	12/5/92	
1600	1630	Australia	R Australia	13755	11880	11855	9580	9560	7260	7240	5995	As/Pac/PapNG	12/19/92	
1600	1700	Russia	R Moscow Int'l	11655	9890	9705	9660	9590	9540	7345		World Service	12/5/92	
1600	1630	Georgia	R Georgia	9565									12/1/92	
1600	1700	USA	WINB	15295								Eu/nAI	12/23/92	
1630	1800	Australia	R Australia	13755	11910	11880	9580	9560	7260	7240	6080	As/Pac/PapNG	12/19/92	
1700	1800	Japan	R Japan	17775	11815	9535	7140					GOSME/nAI/Am/Vs	12/24/92	
1700	1800	Pakistan	R Pakistan	11570	9418							wEU	12/5/92	
1700	1800	Russia	R Moscow Int'l	9890	9685							World Service	12/5/92	
1700	1730	USA	WINB	15295								Eu/nAI	12/23/92	
1730	1800	USA	WINB	15295								Mo-Sa	12/23/92	
1800	1900	Russia	R Moscow Int'l	9860	9685							Su-Fr	12/5/92	
1800	2100	USA	WINB	15295								World Service	12/23/92	
1900	2030	Australia	R Australia	11910	11880	11855	11720	9580	7260	7240	6080	As/Pac/PapNG	12/19/92	
1900	1930	Japan /	R Japan	11875	9535							GOS/Oc/Am	12/24/92	
1900	2000	Russia	R Moscow Int'l	9860	9785	9725	9685					World Service	12/5/92	
2000	2100	Russia	R Moscow Int'l	9890	9860	9785	7205	7170	4795			World Service	12/8/92	
2000	2100	Indonesia	V of Indonesia	11752	9675							Eu	11/29/92	
2000	2030	Lithuania	R Vilnius	9675								Eu	12/17/92	
2030	2100	Australia	R Australia	11855	11720	9560	7260	7240	5995	5880		As/Pac/PapNG	12/19/92	
2100	2130	Australia	R Australia	11855	11720	9645	9580	9540	5995			As/Pac/PapNG	12/19/92	
2100	2200	Cuba	R Havana	15165								Eu/AI/ME	12/19/92	
2100	2200	Japan	R Japan	17890	17810	15430	15280	15195	11925	11840	11815	GOS/Oc/As/Eu	12/24/92	
2100	2200	Russia	R Moscow Int'l	17655	17605	15425	9860	9785	7180	7150	7115	World Service	12/5/92	
2100	2245	USA	WINB	15185								Eu/nAI	12/23/92	
2130	2200	Australia	R Australia	11880	11855	11720	9645	9540				As/Pac/PapNG	12/19/92	
2130	2200	Ecuador	H/CJB	21455	17790	17490	15270					Eu	12/23/92	
2140	0400	New Zealand	R New Zealand Int'l	17770								Pacific	12/10/92	
2200	2230	Australia	R Australia	17795	15365	15320	11855	9645	9540			As/Pac/PapNG	12/19/92	
2200	2300	United Kingdom	BBC	15070	9915	9590	7325	5975				WS: NA/Am/C/Am/Carb	12/23/92	
2200	2225	Italy	RAI	11800	9710	5990						Japan	12/27/92	
2200	2300	Russia	R Moscow Int'l	17655	17605	17570	15425	11655	9870	9860	9520	World Service	12/5/92	
2200	0230	USA	KCBI	15725								Canada	12/18/92	
2203	2215	Croatia	Croatian Radio	13830	9830	6145							may be aimed south News/English	12/26/92

the page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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

FORCES FRANÇAISES LIBRES
AU LEVANT

SERVICE DES TRANSMISSIONS

RADIO-LEVANT

N° 45 / s.D.

BEIRUTH, LE 18th. January 1945.

From: Captain BAHN
Signals Officer
i/c of Radio-Levant

to: Mr. Paul KANTY
150 Supper Ave.
JOSHESBORO, Pa.
U.S.A.

I have to acknowledge receipt with many thanks of your letter dated 16th. November 1944, and I am glad to note the good reception you had on our radio-Levant transmissions.

I am rather surprised of such good results considering our power is only 3 kilowatts and our aerial is directional, pointing North-East, since our propaganda is most concerned with the occupied territories of Eastern Europe.

We are expecting to increase our aerial power to 10 Kw. as soon as we will receive valves type 889 R. from U.S.A. and we will change our wavelength in the 50 meters band.

I am interested to learn that during 1941, the Original Stations were aged. This Actual Station has been replaced by a few "Grand Amateur" Radio letter, IX.-V.U.2AM. of India. It might interest you.

Should you require any further information or wish to receive further reports from you

LEBANESE BROADCASTING STATION

TWO WAY TRANSMISSIONS 100 METRES

M. PAUL KARAKIANTS

P.O. B. 51

KYRENIA, CYPRUS



The French called the Mid East the Levant, and Radio Levant was established by the Free French Forces when they and the British entered Syria in 1941 in order to eliminate pro-German activity. The station, FXE, was headquartered in Beirut and operated with 3 (later 10) kw. on about 8020 kc/s. It was destroyed, then sabotaged, and eventually rebuilt. The English news at 2000 GMT sometimes made it to the U.S. Radio Levant also had a transmitter in Damascus on 7090 kc/s. +++ The card is from the Lebanese Broadcasting Station, Beirut, circa 1959.

A Committee of the Association of North American Radio Clubs

North American Shortwave Association
45 Wildflower Road
Levittown, Pennsylvania 19057

First Class Mail
U.S. Postage
PAID
Levittown, PA
Permit No. 319

FIRST CLASS MAIL



ISSN 0160-1989

The Journal of the
North American Shortwave Association

Executive Director: Bob Brown, KW3F
238 Cricklewood Circle, Lansdale, PA 19446

Publisher: Bill Oliver, 45 Wildflower Road,
Levittown, PA 19057

Executive Council: Jerry Berg, Bob Brown,
Dr. Harold Cones, Gerry Dexter, Glenn Hauser,
Don Jensen, Bill Oliver

EDITORIAL STAFF

Managing Editor: Bob Brown, KW3F
238 Cricklewood Circle, Lansdale, PA 19446

DXer's Forum: Send All Inputs to - 238 Cricklewood
Circle, Lansdale, PA 19446

Easy Listening: Richard Cuff, 213 Parkview Ave.,
Allentown, PA 18104-5323

NASWA Portraits: Jerry Klinck, 43 Lein Road,
West Seneca, NY 14224

Listener's Notebook: Dan Ferguson, P.O. Box 2604,
Dale City, VA 22193

Technical Topics: Joe Buch, N2JB, 2008 Mozart
Circle, Virginia Beach, VA 23454

QSL Report: Sam Barto, 47 Prospect Place, Bristol,
CT 06010

Distributing Editor: Vernon Hyson, 5410 Camp
Stewart Rd., Charlotte, NC 28215

Tropical Band Loggings: Sheryl Paszkiewicz, 1015
Green Street, Manitowoc, WI 54220

International Band Loggings: Wallace C. Treibel,
357 N.E. 149th St., Seattle, WA 98155

Scoreboard: Jerry Lineback, 6361 Shore Drive,
Douglasville, GA 30135

NASWA Awards: Dr. Harold Cones, 2 Whits Court,
Newport News, VA 23606

English Schedules: Tom Sundstrom, W2XQ
P.O. Box 2275, Vincentown, NJ 08088-2275

Listener's Library: Skip Arey, WB2GHA
P.O. Box 644, Waterford Works, NJ 08089

Destinations: Mitch Sams, 779 Galilea Court, Blue
Springs, MO 64014; Don Moore, 11434 140th St.,
Davenport, IA 52804-9538; Bill Kurrasch, 5607
Lincoln Rd., Ontario, NY 14519

Equipment Reviews: Alan Johnson, N4LUS
6001 Goldsboro Rd., Bethesda, MD 20817

Radio Stamps: Neil Carleton, P.O. Box 1644,
Almonte, Ontario K0A 1A0, Canada

The Company Store: Fred Kohlbrenner, 2641 S.
Shields St., Philadelphia, PA 19142

MEMBERSHIP FEES:

North America (First Class Mail) \$25.00
Overseas (Air Mail):

*Central America, Caribbean, Venezuela
& Columbia* \$29.00
South America and Europe \$29.00
Asia, Africa and Pacific \$32.00

All remittances must be in U.S. funds and mailed to:

NASWA
45 Wildflower Road
Levittown, PA 19057
U.S.A.

