

NASA

the
JOURNAL

NORTH AMERICAN SHORTWAVE ASSOCIATION

Volume XXXIV, Number 5

May, 1994



Warsaw - Praga District

RADIO POLONIA

SANGEAN

ATS-803A



Here is a full-featured portable with all the capabilities you want at an affordable price. The Sangean ATS-803A covers it all - longwave, medium wave, FM and shortwave to 29999 kHz. Five tuning functions offer exceptional versatility: manual tuning knob, keypad entry, auto scanning, manual scanning and memory recall. Readout is to the nearest 1 kHz on the large LCD display. Nine memories are provided for your favorite stations. Five other memories retain the last station tuned on five bands (LW, MW, FM, SW and AM). A BFO knob is provided for excellent SSB/CW reception. A dial lock and dial light are provided. This radio offers exceptional fidelity because of its large 4" speaker and use of both Bass and Treble controls. FM Stereo reception is featured through the headphone jack. A separate RF control insures maximum sensitivity without overload. A built-in 24 hour LCD clock can turn the radio on at any preset time. Jacks are provided for external antenna (RCA type), stereo headphones, tape recorder and external power. An AC adapter, stereo headset and wave guide are included at no extra cost. Requires two AA batteries for clock/memories and six D cells for portable operation. This model also features a Wide-Narrow selectivity switch not found in other radios at this price. One year limited warranty. 11 3/8" x 6 1/4" x 2 1/8" 4 Lbs. (7 Lbs. ship)

Now our best selling portable is at the best price ever! Nothing else at this price compares!

ATS-803A SALE

\$149.95 (+\$6 UPS)

(on sale through 7-1-94)

SONY

ICF-M350V



Here is a truly incredible value from Sony Corporation. This four band digital portable receives AM (530 - 1710 kHz), FM (87.5-108 MHz), VHF television audio (channels 2-13) and the NOAA weather band! (No SW reception). You can store up to five frequencies on each band for a total of twenty memories. The built in 3 inch speaker provides pleasant sound. Sony has included a key protect button to lock the radio's controls. The 12 hour digital clock-alarm continuously displays the time when the radio is off. With 3.5 mm mono earphone jack and hand strap. All this in a compact size and at a very compact price! This is the ultimate emergency radio for when the power fails. It also makes a great gift for that person who has everything! Requires three AA cells (not supplied). 4.5 VDC. 7.75" x 3.75" x 1.35" 16 oz. (3 Lbs. ship). One year limited warranty. Order # 1058 **\$54.95** (+\$5 UPS)

Recent Arrivals at Universal ...

● Universal M-8000v5

The ultimate decoder is even better with the addition of: ACARS, PACTOR & ARQ6-90. #0085 **\$1349.00** (+\$10)

● Sony ICF-SW30

An affordable dual-conversion digital with 15 mem, dual clock-alarm, sleep and autoscans. #2230 **\$99.95** (+\$5)

● Sony IPS-760

Sony's latest and greatest GPS. #1069 **\$1299.95** (+\$8)

● Yaesu FT-11R

This is one incredible 2M HT! #0608 **\$319.95** (+\$4)

GRUNDIG

YB-400



Grundig's newest model represents excellent value in a mid-price portable. The Yacht Boy 400 is praised in the 1994 *Passport To World Band Radios* as "Best performance for price/size category right up there with very best among world band radios." Coverage is complete including long wave (144-353 kHz), AM band to 1710 kHz and shortwave from 1711 to 30000 kHz. FM (87.5-108) is included with stereo provided to the headphone jack. A thumb wheel knob on the side of the radio provides smooth single side band (SSB) tuning. The illuminated digital display provides tuning resolution at 1 or 5 kHz on shortwave. Two bandwidths are featured. The narrow position affords maximum selectivity, or the wide position may be chosen for best audio fidelity. The keypad will quickly get you to any frequency or store up to 40 of your favorite stations in the presets. The presets may be accessed directly or you can scan through them by using the radio's second set of UP/DOWN buttons. The YB-400 can also frequency search. The dual digital clock is visible while the radio is playing. Other refinements include: snooze and sleep buttons, lock, HI/LOW tone switch, LOCAL/DX switch, and 9/10 kHz MW scan selection. External jacks are provided to earphone (3.5 mm), antenna (3.5 mm) and 9 VDC input. The YB-400 comes ready to go with six AA cells, stereo ear plugs, wind-up antenna, Owners Manual, Grundig Shortwaves Guide and vinyl carry case. 8"W x 5"H x 1.5"D 11.5 oz. One year limited warranty.

List \$269.95

Order #0040

\$219.95 (+\$5 UPS)

◆ HUGE CATALOG ◆

Our new 100 page catalog is bigger than ever, with everything that is new for the listener, ham or scanner enthusiast. Available FREE by fourth class mail or for \$1 by first class mail.

Universal Radio ...

Serving Listeners Since 1942!

STORE HOURS

Monday - Friday	10:00-5:30
Except Thursday	10:00-8:00
Saturday	10:00-3:00
Sunday	-CLOSED-

Visa, Mastercard or Discover card. Prices & specifications subject to change.

**universal
radio inc.**

Universal Radio, Inc.
6830 Americano Pkwy.
Reynoldsburg, Ohio
43068-4113 U.S.A.

800 431-3939 Orders & Prices
614 866-4267 Information
614 866-2339 FAX

Contributors' Page

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



In Memory

of

C. Vernon Hyson

Earlier this week we were saddened to learn of the sudden, unexpected passing of our good friend and long-time club member Vern Hyson. As many of you know, Vern has been a member of NASWA for many years and most recently served as our Distributing Editor until his untimely death. A better friend and co-worker could not be found anywhere.

Vern was a regular at radio related conventions and DX gatherings where his warm personality and good humor made him one of our favorites. It was only a few short weeks ago that many of us had the pleasure of his company at the *Winter SWL Festival*. Although a quiet man by nature, Vern's voice was well known to many visually impaired hobbyists who were able to share the pages of the *JOURNAL* with the rest of the club membership thanks to his tape recorded readings of the bulletin. Through his unselfish giving of time and effort, Vern was able to provide a valuable link for a number of visually impaired members.

A good husband and father, a friend to his fellow hobbyists, a dedicated DXer, a man generous with his time in support of worthy causes, quiet and caring are just some of the words that only touch the surface when describing our good friend Vern. On behalf of the staff, the editors, and the entire NASWA membership, the Executive Council extends our sympathies to Vern's family and many friends. We will all miss him. Rest in peace, OM.

In honor of Vern's memory, we dedicate this issue of the *JOURNAL* to him.

NASWA Notes

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



Thanks to Alan Johnson, we have obtained back issues of *Frendx* for 1971. A reminder that we still need help from the membership in obtaining back issues of *Frendx* for our *Twenty Five Years Ago* feature. We still need: September 1969 through December 1969 (4 issues); and all of 1970 (12 issues). If you are willing to part with your back issues or can make copies of those issues, it would be appreciated. Please contact Rich D'Angelo (2216 Burkey Drive, Wyomissing, PA 19610 / GEnie: "R.D'Angelo3") as soon as possible. Thanks!!!

The first club segment over HCJB's DX Partyline hosted by Marie Lamb premiered Saturday 16/17 April. If you caught that program you were treated to a good show. Look for Marie doing the club segment every third Saturday of the month on the DXPL. Nice work Marie and keep it up!

Tiare Publications (P. O. Box 493, Lake Geneva, WI 53147) sends word that the sixth edition of the *Pirate Radio Directory* is now available for just \$12.95 plus \$2.00 shipping and handling (\$3.00 foreign). Besides being available directly from the publisher, it can be purchased at through your favorite radio

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, Hausie WB4JSP, and Tom Sundstrom W2XQ, host an always lively gang of DX monitors. (Best heard in the eastern half of NAm)

supplier. The Directory features the writings of George Zeller with an introduction to pirate radio and Andrew Yoder with descriptions of dozens of station heard in the last year. This is a must have for any pirate radio DXer. Incidentally, Messrs Zeller and Yoder are NASWA members!

Winter SWL Festival Tidbits

In the month-end rush to put the *JOURNAL* together last month, I inadvertently neglected to mention that Jeannie Ferrell, owner and operator of Gilfer Shortwave in New Jersey, announced at the Saturday evening banquet

Welcome to the following new NASWA members -

Steve Biczak, Wayne, NJ
Ernest R. Birnbaum, Jamaica, NY
Robert Chalhoub, Milwaukee, WI
Fred Coscia, Miami, FL
Christopher R. Downie, Johnstown, PA
Tom Everson, Portland, OR
Brad Gaynor, Santa Clara, CA
Charles Jones AA4XO, St. Cloud, FL
Wayne Jortner, Gardiner, ME
Scott Krauss, Cleveland, OH

Henry Lazarus, New Orleans, LA
William R. Mayer, Allentown, PA
Byron L. Nelson, Mesa, AZ
Bret E. Pollack, Baltimore, MD
Robert Preuss MD, Ann Arbor, MI
Robert G. Rossler, Monee, IL
Robert Schaub, Stamford, CT
Everett F. Seidenberg, Stuart, FL
Bailey Thompson, Mobile, AL

Our Motto is - "Unity and Friendship"

that NASWA member Paul Lannuier, formerly of Japan Radio Company, would be taking over Gilfer. Jeannie is retiring after many years of serving the hobby community. On behalf of the entire NASWA gang, we wish her well and thank her for serving the hobby so well these many years. We also wish Paul the best in his new undertaking. If member Gerry Kercher seems happier than usual, it is because he won the FEST's grand prize, a Lowe HF-150. Some guys have all the luck! Pancho Villa made another (traditional) appearance at the FEST. Rumor has it, if one were to know such things, that Pancho is a member of one or more important DX clubs. Perhaps even a member of NASWA! I'll see if I can get some more information about this.

Finally, remember to keep DXing and sending in your logs, QSL news, and other information to your editors as the season begins to draw to a close. We have had plenty of support this year with the result being some excellent *JOURNALS* this DX season. Without your contributions, there would be no *JOURNAL*.

Notice - As a result of the sad and untimely passing of our friend Vern Hyson, John Schmid has volunteered to assume the role of Distributing Editor. Please direct all logs to:

John Schmid
P.O.Box 86
Line Lexington, PA 18932

Calendar Of Events

- May 17-** 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
- May 20-** Meeting, Philadelphia Area NASWA Chapter. Kulpville Holiday Inn, Kulpville, PA. 7:30 PM Contact Dan Cashin (215)446-7831
- May 20-** Meeting, The Boston Area NASWA Chapter. Bull Cafeteria, Billerica, Mass. 7:30 PM For additional information please contact Paul Graveline (508)470-1971, or via modem on Tom's BBS, (617) 698-8649 (300/1200/2400 baud), (617) 698-8734 (9600).
- May 21** - The Miami Valley DX Club (All band orientation) meets on the third Saturday of each month at 1 PM. Locations vary but are announced in advance. For info, call the MVDXC (614) 471-9973 Or, send a SASE to MVDXC, Box 292132, Columbus, OH 43229-8132
- Jun 5** - The Tidewater SWLs meet on the first Sunday of each month at 6:30 PM. For info, call Joe Buch, (804) 721-2782.
- Aug 31-Sept 3** - Radio Comm '94, Holiday Inn, Irvine, CA. For more info send a #10 SASE to: SCADS, 6398 Pheasant Dr., Buena Park, CA 90620

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

Easy Listening

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

Targeted Listening

One of the biggest challenges to program listeners is choosing what to listen to. Program and frequency guides help one make a more informed choice, but program listening does require one to prioritize one's listening effort. One technique I use is **Targeting**. By **Targeting** I mean the practice of selecting a broadcast service from a part of the world often in the news. The political turmoil in Japan coupled with strained US-Japan relations provides plenty of news fodder, and I have become a regular time-shifted listener to **Radio Japan News Round**.

Radio Japan News Round airs for 30 minutes weekdays at 1100 UTC on 6120 kHz (RCI relay) for Eastern North America, with transmitters in Japan also used. Aside from recent general propagation disturbances, 6120 kHz is rocking chair quality here in Eastern Pennsylvania. The program format features specific segments. After a small portion of cultural chatter on such matters as the weather and a bit of culture, the program kicks in with **News**, with headlines from around the world. Then comes **Japan Update**, which focuses on domestic Japanese news of international interest. This has been the most interesting segment of late with the continuing political saga. Business and economic news closes out this segment. Then follows **News Focus** which looks at a single international news item for approximately five minutes. **Asia Scene** then takes a quick look at two or three stories from elsewhere in Asia; most days then feature **Topic Of The Day**, again a single issue segment on a lighter topic such as entertainment or culture. A recap of news headlines and a tidbit of cultural repartee between the program hosts closes out the program. About the only thing missing I would particularly enjoy is a press review of headline and editorial content from leading Japanese daily newspapers.

The 1100 UTC timing places **News Round** in the portion of my morning routine when I'm away from the radio. Thus, I record the program for the commute to the office or the next morning's exercise routine.

Radio New Zealand International

I have just received an updated schedule from Adrian Sainsbury, RNZI Frequency Manager. Some highlights:

0500 Weekdays on 11900 kHz: **Checkpoint**, a current affairs program; 0630 weekdays, **Ears**, a program for young people. 1050 Weekdays on 6100 kHz: **Asia Pacific Business Report**. 0910 alternate Thursdays on 6100 kHz: **Mailbox**, RNZI's listener feedback program. There are other airings in addition to these, but these should propagate best to North America.

Music Tip

If you're looking for a daily music fix, John Figliozzi suggests **Radio Austria International's** 1230 UTC broadcast easily heard on 13730 kHz. This is **Radio Austria International's** German language "B" program. There are a few German language announcements, but most of the program is music. Various music types are featured.

BBC World Service Highlights

There is word of upcoming service cuts at the BBC that will impact North America more than most areas. The most probable approach will be the reduction in parallel frequency use. The BBC is emphasizing local placement of its marquee programs (**Newshour**, **Newsdesk**) on public radio stations. When you inspect the highlights shown below, you'll see a greater percentage of programs are

presented a total of four times, versus the three-time presentation typical of the recent past.

As for May program highlights, the Shakespeare season continues. Tales of travel are also subjects for several features.

Shakespeare Today

In addition to last month's highlights:

Tuesday, May 11, 2330 UTC: Omnibus includes the feature *What Shakespeare Knew*, looking at the intellectual and scientific background of the period, along with perspectives on politics and religion. **Omnibus** is a 30-minute feature with repeats Wednesdays 1001 and 1930, and Thursdays 0230.

Thursdays, beginning May 12th, 2330: The Reduced Shakespeare Radio Show is a six-part 30-minute series with a novel interpretation of Shakespeare by America's *Reduced Shakespeare Company*. The *Los Angeles Herald* has described the RSC as "Shakespeare as written by 'Readers' Digest', acted by Monty Python and performed at the speed of the minute waltz." First airing Wednesdays 1530; also repeated Thursdays 1030.

Fridays, beginning May 20th, 1215: Shakespeare On Trial is a three-part 30-minute feature looking at the playwright's reputation from a global and contemporary point of view. Is Shakespeare the greatest writer who ever lived, or does his standing simply reflect the worldwide stature of the English language. First airing Fridays 0730, also repeated Fridays 1930.

Science and Technology

Mondays beginning May 16, 0015: A Step Too Far is a six-part 15-minute series with a philosophical bent. The program examines six major scientific and technological advances and the disasters which followed. What happens when we try to go a step too far, when a desire to innovate and improve leads to disaster? First airing Sundays 0445; also repeated Mondays 1445 and Wednesdays 0815.

Monday, May 16th, 0101: Mind And Body is a single 45-minute program exploring the increasing evidence that mental health leads to physical health—normally one considers the reverse to be true. Can we become physically fit by becoming mentally fit? First airing Saturday May 14th 1901; repeated Monday 1515.

Music and The Arts

Mondays beginning May 16th, 0145: Crossing The Border is a six-part 15-minute series exploring the merging of serious and popular music. This includes the mixing of music styles across cultures. Does this mean a comeback for classical, or its demise as we know it? First airing Sundays 0715; also repeated Tuesdays 1445.

Mondays beginning May 16th, 2215: Duke Ellington—Jazz Genius is a four-part 30-minute series tracing Ellington's career from his late 1920s radio shows at Harlem's Cotton Club through his most successful and prolific period to his continuing influence today. Repeated Tuesdays 0630, Wednesdays 1615, Fridays 1030.

Sundays, 0101: Play Of The Week highlights: May 15, *Blithe Spirit*: Noel Coward's most successful play features a novelist, a spiritualist, a dead first wife and a murder plot. May 22, *Marvelous Party* chronicles the relationship between Noel Coward and collaborator Esme Wynne, spiced by Wynne's renouncing of the stage and her calling as a Christian Scientist. May 29, *Racing Demon* begins at 0030 and details the struggles of four Anglican clergymen in south London. This adaptation features a reprise of Oliver Ford Davies' award-winning performance as the Reverend Lionel Espy. *Play Of The Week* is repeated at 1201 and 1901 with May 29th times 30 minutes earlier.

Light Entertainment

Tuesday, May 24th, 0230: Masterbrain brings back the two sets of 1993 winners and runners-up of radio's *Brain Of Britain* and television's *Mastermind*. The first portion of the contest uses *Brain Of Britain* rules, and the second portion *Mastermind* rules in which each contestant has two minutes to

answer questions on a specialist subject of his or her choice. First airing Sunday 2030; also repeated Monday 1215 and 1715. **Masterbrain** is a prelude to the return of...

Tuesdays, beginning May 31st, 0230: **Brain Of Britain** returns for a new 17-week season as one of the Beeb's most popular programs. For the uninitiated, **Brain Of Britain** is a general knowledge quiz show. First airing Sunday 2030; also repeated Monday 1215 and 1715.

News and Feature Programs

Thursdays 2215: **Network UK** is a weekly 30-minute program on issues and events affecting the lives of the people of the UK. There's a mix of serious issues and cultural topics, often spiced with debate from multiple perspectives. The program originates from the various states of the UK on a rotating basis, but a given week's program normally includes items from all over the UK. First airs Thursdays 0730 and 1615.

Sundays beginning May 8th, 2330: **Extraordinary And Plenipotentiary** is a three-part 30-minute series examining the international network of embassies and how they evolved and became established. The use and abuse of diplomatic privileges and responsibilities are explored. Where do the traditional skills of a diplomat fit in with today's world? First airing Sundays 1401; also repeated Mondays 0630 and 1001.

Sundays beginning May 1st, 0230: **Discursive Excursions** is a three-part 30-minute program interviewing seasoned travelers about their exploits and how they reacted to extreme conditions. The May 8th program interviews polar travelers Sir Vivian Fuchs, Sir Alexander Glen, and others regarding the mental and physical problems they have encountered at the ends of the earth. The May 15th program interviews desert travelers Sir Laurens Van Der Post, Wilfred Thesiger, and others on the discomforts and high points of their Saharan and Arabian desert travels. Repeated Sunday 1615, Monday 0730, and Wednesday, 2215.

Sunday, May 22nd, 0230: **Cannabis—Weed Or Wonderdrug?** is a single 30-minute program contrasting marijuana's status as a mind-altering drug and as a treatment for such diseases as AIDS, multiple sclerosis, and other ailments. As hemp, cannabis has commercial value as a source of fuel, paper, and fabric. This comparison overlays the growing movement to decriminalize marijuana in a number of developed countries. Repeated Sunday 1615, Monday 0730, and Wednesday, 2215.

Saturdays beginning May 28th, 0015: **Marriage And The Throne** is a three-part 15-minute series recounting three dramatic stories of marriage and divorce from the history of the British royal family. The first program looks at the divorce of George IV and Queen Caroline. When George became king in 1820, he wanted a divorce, and the government worked to make sure Caroline's reputation was more scandalous than George's. The current royal family difficulties pale by comparison, promises the BBC. Repeated Mondays 1930 and Tuesdays 0915.

Sports

Mondays, beginning May 16th, 0445: **All The World's A Football Pitch** is a five-part 15-minute series exploring the social and economic background to soccer on the eve of World Cup '94. English failure, Italian politics, and Brazilian corruption are reflected in the performance of their respective teams. First airing Sundays 2015; also repeated Mondays 0915.

Coming Up...

Thanks to John Carson Jr. of Norman, Oklahoma, I have a copy of the detailed Radio Budapest schedule through June 1994. Several interesting programs—I'll be sampling them in May and reporting on them in the June *Journal*. Until then,

73 DE Richard

African Destinations

Al Quaglieri

P O Box 888

Albany, NY 12201-0888

fax: 518-437-1922

MCI Mail: AQUAGLIERI

Internet aquaglieri@mcimail.com

HOWDY!

Well, here's another fine mess I've got myself into, Stanley. A hearty hello to my old radio pals who broke into hives upon seeing my name atop the masthead. Felicitations also to the rest of you, friends and enemies I've yet to make. Here's the personal poop: I'm 44, a most-of-the-time writer and a part-time musician. Been in the hobby since 1962, not counting occasional sabbaticals coinciding with rampant hormone attacks. I'm also amateur callsign NN2U, and can sometimes be heard working CW (all bands), buzzing the ANARC net (Sundays 10 am Eastern 7240 upper), and generally annoying the residents of 3910L. I've been interested in African DX for a long time, and edited a SPEEDX column about same to stave off depression during the Reagan-Bush years. Consider yourselves warned: I steadfastly refuse to take this hobby too seriously. Depending on how tired or irritated I am when I sit down to put this column together, my overall tone may sway from highly opinionated to extraordinarily silly. Please bear with me, or complain to the management.

Now, at the risk of boring you pros to tears, here's a how-to for the Africa-deprived.

DOES AFRICA REALLY EXIST ON SHORTWAVE?

Of course it does, but in a form not at all like Radio Nederland or the BBC et al. There is not a single

African country who points their antennas at the U.S., fires up their transmitters during our evenings, and broadcasts a program in English to North America (the exception is Egypt, but since their audio sounds like a boom box with its speakers ripped to shreds, it doesn't count).

What's their problem? Sheesh, where do I begin?

For whatever reasons, Africa is overall a financially unsound, politically unstable continent. A whole lot of Africans don't make in a month what it cost you to join NASWA. With hands full trying simply to feed, clothe and educate themselves, few governments or individuals have the time, resources, or inclination to consider external broadcasting.

Generally what shortwave exists in Africa is there for domestic consumption: to cover large tracts beyond the reach of mediumwave and FM signals. In many cases, these shortwave transmitters (and associated antennas) are leftovers from the days of colonial rule. After 30+ years of continuous service in hostile physical environments, much of this equipment is simply beat to death, and its operators have neither the money nor technical wherewithal to refurbish or replace. Second, third and fourth transmitters have been cannibalized just to keep one transmitter working (the exact situation for Radio Nigeria). When foreign aid allows them to overhaul their broadcasting infrastructures, broadcasters inevitably install small and relatively inexpensive FM relays, keep shortwave only to fill

in voids in domestic coverage.

What that leaves you - the SWL/DX'er - with is a ragtag aggregation of ill-maintained, frequency-wandering, underpowered, undermodulated signals to try hearing. Nearly everything easily heard from Africa - relays of the BBC, VOA, RFI, etc. - can be better heard from other sites, and has little to offer by way of authentic African flavor. Which leads us to...

THE TROPICAL BANDS

Domestic services of African shortwavers operate from 3200-3400 kHz and 4770-5100 kHz (the so-called Tropical Bands). Signals in these bands propagate long distances mainly over darkness paths, i.e. the sun should be down in both the originating country and wherever you are. But it ain't that easy.

The sun rises in East Africa at around 0100-0200 UTC, and in Western Africa as late as 0500 UTC.

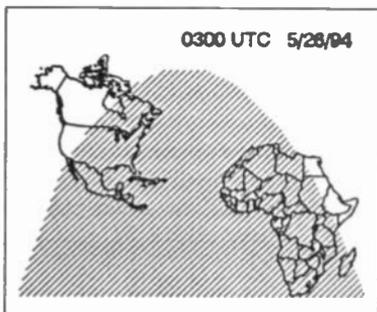


Figure 1

Lucky for us, those are nighttime hours for most of North America. If you're having trouble envisioning this, check out Figure 1 (guaranteed not to scale). The shaded area indicates nighttime.

Under ideal propagation

conditions, this means that anyone in the eastern 2/3 of North America should be able to hear most Tropical Band Africans...presuming they're on the air!

Africans signing on at 0300 include Botswana, Burundi, Comoros, Djibouti, Lesotho, Madagascar, Malawi, Mozambique, Rwanda (in better times), Sudan, Tanzania-Zanzibar, Uganda, and Zaire. Zambia hits the air around 0245, with Ethiopia on at around 0325.

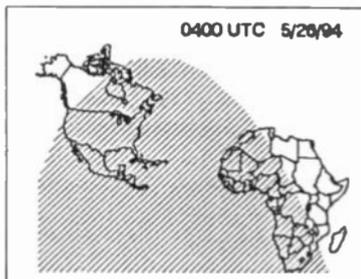


Figure 2

This brings us to 0400 UTC. Take a gander at Figure 2.

By now, all of North America is in darkness, along with the western half of Africa. What a coincidence. 0400 is when you'll (hopefully) find Congo, Cote d'Ivoire, Nigeria and Somalia signing on for the day. At 0430, they're joined by Cameroon, the Central African Republic, Chad and Niger.

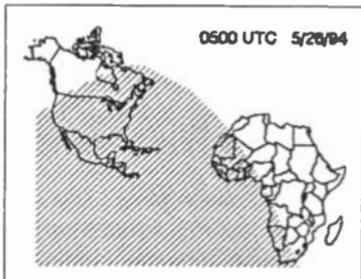


Figure 3

Hmmm. In Figure 3, we Americans are completely in the dark (is usual...) and Africa west of Benin is in the hour before daybreak. This is when Angola, Benin, Chad (Mondou) and Gabon sign on. A half hour later, look for Burkina Faso, Ghana and Togo.

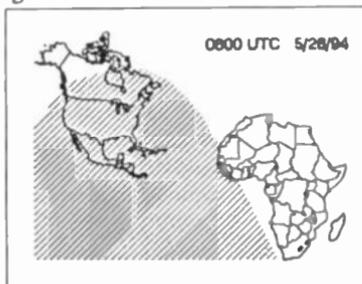


Figure 4

By 0600, the only parts of Africa not in daylight are from Senegal through Liberia. Signing on at 0600 are Liberia, Mali, Senegal and Sierra Leone, with Mauritania sleeping late and coming on at 0630.

This is all fine and dandy for insomniacs. What if I'm asleep by 0300-0600+...what do I get to hear?

Uh...you can try for Kenya and Madagascar at 0200. Or leave work early and hear VOA and BBC relays. But generally, if you listen only between 0000-0300, you'll hear nary a peep from Africa. In the immortal words of Bruce Hornsby, "that's just the way it is."

There's lots more to discuss when it comes to hearing real African DX. Were I to lay it all out now, there'd be no room left for the JOURNAL's other knowledgeable and noble editors to show you their stuff. Stay tuned.

AROUND THE HORN...

CAMEROON: Radio Garoua currently broadcasts news in English at 05, 14, 18 and 21 hours (Yaounde national news), and at 1330 (Garoua regional news). (BBCM). Freq's as per WRTH (AQ).

GABON: RFI and Africa No. 1 are currently wrestling over contract renewal for the use of Africa No 1. ANO contends the lower rate demanded by RFI endangers its survival, while RFI is holding out for "a better rate for the French taxpayer." Meanwhile, here's the sked for Swiss Radio International via Moyabi, effective 27 March - 24 September 1994: on 6135 kHz to Africa: 2000 English, 2030 French, 2100 Italian, 2130-2200 German; on 12035 kHz to the Americas: 2215 German, 2300 Italian, 2330-2400 Spanish. (BBCM)

DJIBOUTI: RFI's plans to build a relay station here remain on hold until the French government approves financing. RFI argues that building new site would "be cheaper then to rent frequencies." The planned site would cover the Indian Ocean and East Africa.

GHANA: The GBC has undertaken to extend FM coverage to all the regional capitals. FM transmissions have already begun from Kumasi, Sekondi, and Dormaa Ahenkro. (BBCM)

KENYA: On 8 March, KBC announced major changes to improve its services in the course of this year. These will include two dishes for satellite reception, a second TV channel and an FM radio station. (BBCM)

LIBERIA: Newcomer "Radio ELRL" broadcasts from Gbarnga on 6090 kHz plus an FM channel. Sked is 1000-1830. (BBCM) If it sticks to these times, this'll be a major

challenge to North American DX'ers, probably audible near their sign-off no earlier than December of this year. (AQ)

MOZAMBIQUE: According to BBCMS, Radio Mozambique plans to install four new transmitters before this year to extend its broadcasting radius, which now reaches only 30% (mediumwave a mere 15%) of the country's 16 million people. RM Technical Director Engineer Rufino de Matos has stated that, following a grant from the Japanese Government, a new medium-wave transmitter will hit the air in August. Matos also announced a plan to replace transmitters in six provinces with more powerful transmitters. Studio equipment in those provinces would also be replaced. Germany is expected to participate in the implementation of that project. He said that a new transmitter given by UNICEF is to come into operation in Zambezia Province by May of this year. Transmitters in Nampula and Cabo Delgado Provinces "may come into use before the end of the year and the others next year," Matos said. Engineer Matos noted that RM currently faces serious technical and financial problems, adding that its equipment is obsolete. "We are working with equipment that has seen some 50 years of service," he said. The condition of the equipment means frequent breakdowns and repairs are difficult, causing transmission and frequency fluctuation problems. (BBCM)

Two new radio stations have been given permission to operate in Mozambique: Radio Miramar (linked to the Universal Church of the Kingdom of God) and Radio FM (belonging to the Multimedia company). The Machava parish and the archdiocese in Nampula have also

applied for radio stations. Maputo-based Cardinal Don Alexandre has also requested permission to open a radio station on behalf of the Catholic Church. (BBCM)

NIGERIA: Delegates of Nigeria's Radio, Television and Theatre Workers Union on 14 February urged federal and state governments to, as a matter of urgency, replace all obsolete equipment in their broadcasting organizations to sustain the broadcast industry in the country. (BBCM)

SAO TOME: Sao Tome authorities are presently negotiating with German radio [presumably Deutsche Welle], which wants to establish a relay here. Last June, Voice of America installed its transmitters to Africa in Sao Tome. (BBCM)

SIERRA LEONE: The Wesleyan Mission in Sierra Leone has installed a new AM radio station, broadcasting to Makeni town and its environs. According to the Mission, the station will transmit both religious and community service programs covering health and education. Initial tests are scheduled for two hours in the morning and three hours in the evening. The station, located at the Wesleyan Conference Center at (?Romankme), will broadcast mainly in local languages. (BBCM)

SOUTH AFRICA: SABC's domestic services ran 24 hours during the last week in April for the election. Although no surprises are expected, election results won't be finalized for several weeks after the polls closed. Unfortunately, the domestic services are down in the QRN this time of year, and Channel Africa's English programs remain a tough catch in North America; your best bet is 9695 kHz between 0500-0600, best past

C530 when Radio Free Europe pulls the plug. (AQ)

Radio Vryheid [Afrikaans for Radio Freedom], a new, unlicensed, right-wing station, began broadcasting on 19 March. Aiming to promote Afrikaans culture, it opened with traditional Afrikaans music. Transmitters either completed or under development in Kimberley, Theunissen, Warrenton and Douglas would eventually give Radio Vryheid access to all of the Orange Free State and the Northern Cape as far as Kuruman. The station operates 13 hours daily. (BBCM)

Another new station, Radio Keroo, is targeted to begin broadcasting from Beaufort West, serving much of the Great Karoo including De Aar. Radio Keroo will have no political affiliation. The station, said organizer Ms. Olwyn Wessels, would be cultural and educational and would be used to help "the healing process in South Africa." (BBCM). [Certainly neither station will appear on shortwave. - AQ]

A month before the recent elections, South Africa empowered its new Independent Broadcasting Authority [IBA] to oversee the deregulation of the airwaves. Amendments to the IBA enable the continuing granting of temporary broadcasting licenses. (BBCM)

SUDAN: Sudan's President, Gen. Umar al-Bashir, has stressed the importance of supporting the official media organs and promoted the directed ones [shortwave, no doubt] affiliated to Omdurman broadcasting corporation. Gen Bashir made the remark [on] Tuesday [29th March] while receiving Minister of Culture and Information Abd al-Basit Sabdarat. Sabdarat briefed Gen. Bashir on the progress of work for developing and modernizing

Omdurman broadcasts. He also called on supporting...the station for expatriates services. (BBCM) [Presumably that means shortwave? This bears watching. - AQ]

CLANDESTINE (LIBYA): Following up last month's report in *Listener's Notebook*, the Voice of the National Front for the Salvation of Libya (Arabic: Sawt al-Jabhah al-Wataniyyah li Inqadh Libya), ex-Voice of the Libyan People, is audible only via satellite. Those of you so equipped should try Eutelsat-II-F2 at 16.0 degrees East using an audio subcarrier on the Turkish commercial HBB TV transponder (11617 MHz vertical). (BBCM)

CLANDESTINE (WESTERN SAHARA): National Radio of the Saharan Arab Democratic Republic (Arabic: Al-Idha'at al-Wataniyah lil-Jumhuriyah al-Arabiya al-Sahrawiyah al-Dimuqratiyah) supports the Polisario Front and is hostile to Moroccan policy on Western Sahara. Its current shortwave frequency is 11800 kHz, parallel 1544 mediumwave (believed to emanate from a transmitter in Tindouf, Algeria). 576 kHz was last heard in 1988, but continues to be announced. Current sked, on 11800 and 1544 kHz: Spanish: 0000-0100 (irregularly); Arabic: 0600-0800 Sat-Thu, 0700-0900 Fri, 1800-2400 daily. (BBCM)

IN RWANDA...

As you are no doubt aware, Rwanda has been in deep turmoil since 6 April, when President Habyarimana's airplane was blown up with he and the President of Burundi on board. Fighting continues along tribal lines, with the ruling Hutus and the rebel Tutsis at eachothers' throats.

The ongoing slaughter is the consequence of many years of

political and tribal unrest in the tiny African country. The Human Rights Watch group has accused the Rwandan Defense Ministry of issuing "broadcasts over the radio attacking the political opposition and inciting violence against civilians sympathetic to the Rwanda Patriotic Front, leaving no doubt that it was referring to Tutsis. Such broadcasts inflamed the situation further and contributed to thousands of Tutsi murders by the army and militia."

On the Internet on 11 April, Finnish DX'er Jorma Mantyla reported "The rebel station Radio Muhabura was heard daily with very fine reception on 6285.2 kHz. The station fades in around 1800 UTC on 6285.1 kHz and then they slowly drift to 6285.2 kHz. Usually they close down with a nice Tutsi melody at 2007* but on Friday April 8th they had extended their schedule and they were still on the air at 2100 UTC.

According to some news Radio Muhabura should have news in English at 1900 UTC but this seems to be irregular. At 1800 they broadcast in French. On Sunday April 10th at 1855-1920 UTC they suddenly had a programme in English called "Weekly Broadcast". They started with news describing how army troops had destroyed a Tutsi village in Rwanda. Then the high commander of the "Rwanda Patriotic Front" Paul Kagame read a long press release where the front declared to be ready for negotiations. Later another representative of the front was interviewed. He called the newly formed government of Rwanda as "a clique of extremist politicians". He absolutely denied that the front had assassinated the late president Habyarimana. The crash of the airplane was called an accident. The government Radio Rwanda was

blamed many times and was said to broadcast misleading propaganda. The present government was also accused of threatening evacuations from Rwanda. Radio Muhabura claimed that the government had refused Belgian airplanes to use the Kigali airport. That is why airplanes used for evacuation were forced to use the airport of Bujumbura in Burundi. At the end of the programme there were terrible descriptions about the situation in Rwanda. There is lack of food and water in the town and government army troops are gathering dead bodies from the streets of Kigali.

No addresses or any other information about Radio Muhabura or the front operating the station was given at the end of the English programme. The announcer simply said: "Good night... end of weekly broadcast".

The programming and technology of Radio Muhabura sound rather professional. I'd guess that the power of the transmitter is some 5-25 kW. (Mantyla - Finland/INTERNET). See *Listener's Notebook* under CLANDESTINES - AFRICA for more. (AQ)

According to German newspaper accounts, the 11 staffers of Deutsche Welle who were stranded at the relay site near Kigali were flown [to Bujumbura? - AQ] via U.S. helicopters. Belgian troops then flew the staff to Nairobi. Although the station is located but a few kilometers from Kigali, the streets between the site and the capital city were reportedly mined, and staffers were warned to stay put until rescued. (BBCM). No word yet on the status of the transmitting site itself, which has fallen quiet. Sites in Germany, Malta and Sri Lanka have since taken up the slack on former Kigali frequencies. (AQ)

LAST THOUGHTS...

Whether used to shape buying habits, create a national mindset, or topple governments, broadcasting has always been a political act. Nowhere is this more evident today than in Africa. The explosion of listening and viewing alternatives generated by high-power relays of Western broadcasters and by satellite dishes has forced state broadcasting monopolies in many African countries to grudgingly let loose the reins.

The result has been a veritable flood of independent broadcasters - licensed or not - on the continent, mostly on the FM bands. To say the governments are uncomfortable with the new diversity of political viewpoints on the air would be a great understatement. Reactions have been predictable; the following are all quoted from BBCM:

CONGO: "In Congo state media will only be allowed to broadcast official news." GABON: Opposition's Radio Liberte, organ of the National Rally of Lumberjacks [RNB], was destroyed by government security forces on 22 February." GHANA: "The minister of information...has called for the formation of advisory boards for FM stations to ensure that

they serve the purposes for which they have been started." KENYA: "On 1 March, after a year's absence, Kenya Television Network resumed local news coverage." MALI: On 18 February, the Malian government announced it was shutting down a private opposition radio station with close ties to opposition groups [Radio Kaira, one of seven private stations in Bamako]. GUINEA: "Radio Frequence (?Gondalaye), Guinea's first private radio station, was closed down by government security forces 72 hours after it commenced broadcasting. On 10 March, the station, which had broadcast test transmissions of musical programs, was occupied by men in uniform, who ordered journalists and technicians to stop broadcasting immediately."

Much as happened in Eastern Europe, the inevitable exposure of people to new ideas will have great repercussions. Privately-owned broadcasting will change the face of Africa. With a little skill, patience and luck, we African DX'ers will "be there" as it happens.

73,

AI

Listener's Notebook Extra - Last minute DX info via Hans Johnson

CHILE *Radio Triunful Evangelica* 5825 is active again from 2300-0200+ from a new site outside of Santiago. This is a pirate. To obtain a QSL, send a SASE with your reception report to: R.T.E., Casilla 2868, 1000-Buenos Aires, Argentina. I will have the reports verified when I travel to Chile. (Gabriel Ivan Barrera April 22nd)

CLANDESTINES-MIDDLE EAST *Radio Freedom-News Center Iraq* 11695 is on Thursdays (UTC) only signing on at 2200 in Arabic. The station is mixing with BBC-WS broadcasting from Australia. (11J April 28th)

PERU *Radio America* 6010.6 is active around 2300. (PFA WRT11LA newsletter No. 3) This one was believed to have left shortwave for good. (11J)

RUSSIA *Voice of the Assyrians* as of April 2nd, this station broadcasts on Saturdays only on 17890, 12075 and 7305 in Assyrian, Farsi, Arabic and Russian. (Nikolai Rudnev April 11th)

Radio Islamic Wave is a new station replacing Radio Rukhi Miras. It is heard from 1500-1530 on Fridays only in Russian on 17890 12075 and 4055. (ibid.)

Radio Pamyut is temporarily off the air due to financial difficulties, but they plan to resume operations soon. (ibid.)

UNID Indo-Chinese station 4703v heard between 1000 sign on and 1155 sign off with non-stop music. (TIN Relampago Dx No. 37 April 8th)

VIETNAM *Radio TV Gia Lai* 4788 was inactive as of the middle of April. (TIN Relampago Dx No. 37 April 8th)

Equipment Review

Alan Johnson N4LUS
6001 Goldsboro Road
Bethesda, MD 20817
CompuServe 76665,1756
GEnie A.JOHNSON64

JPS COMMUNICATIONS NTR-1 WIDEBAND NOISE AND TONE REMOVER

JPS Communications, Inc. has recently introduced the NTR-1 Digital Noise and Heterodyne Filter. It provides some of the best features of their premier NIR-10 DSP noise reduction device at an affordable price and in an extremely user-friendly format.

The NTR-1 is a two pound black box measuring 1.7 x 6.5 x 5.1 inches (HxWxD). There are only four front panel controls: Power On/Off, Notch, Noise Reduction and Bandwidth (Wide/Narrow). These are pushbuttons that are accompanied by LED's to indicate their status. There is also a front-panel 1/4" stereo headphone jack. Along the back are RCA jacks for audio in and speaker out and a coaxial jack for DC power (+11 to +18 volts at 800 mA is required - no AC adapter is supplied). The price is \$169.95, including shipping when ordered directly from JPS and an AC adapter is \$16.00 additional.

The NTR-1 is connected between the speaker output of a receiver (usually 3.2 to 8 ohms, but the input impedance of the unit can be changed to 47 K ohm for special applications) and a 4-8 ohm speaker is connected to the NTR-1. A source of appropriate DC power is connected and the unit is ready to use. The audio output level of the processor is controlled by the receiver's volume control. An internal automatic gain control sets the signal level fed to the noise reduction circuitry so optimum results are obtained regardless of the receiver's volume setting. The built-in audio amp provides 2 watts into an 8 ohm load, so there's plenty of volume.

SIMPLICITY ITSELF

The NTR-1 is as easy to use as it is to hook-up. Once switched on, the noise reduction, notch filter and bandwidth functions can be selected in any combination. The noise reduction processing is based on the dynamic peaking algorithm used in the NIR-10. It dynamically constructs band pass filters about the coherent portions of a signal (voice or data) and reduces incoherent components such as white noise. This works in real time, so you can compare processed to non-processed audio without any delay. The amount of noise reduction (6, 10 or 15 dB) is selected by an internal jumper setting. The 10 and 15 dB settings are best for pure communications signals, such as SSB, while the lowest setting works best for AM signals containing music. If the narrow bandwidth setting is selected along with noise reduction, the unit defaults to noise reduction parameters that are best for SSB, CW and data transmissions. The notch filter provides up to 50 dB of attenuation of up to four simultaneous tones with a response time of less than 5 milliseconds. The bandwidth switch selects either of two audio passband responses: Wide is 160-6600 Hz at -6 dB or Narrow at 90-3400 Hz.

WHAT WILL IT DO FOR ME?

The notch filter function is nothing short of phenomenal, just like the NIR-10. In most instances, the offending tone is eliminated before the listener is aware of it. The noise reduction feature works well. It made listening to 60 meter African signals in the afternoon much more pleasant by taking out all of the hiss and fuzz in the audio. Weak

signal: dramatically jump out of the "mud" when the noise reduction is engaged. I found that I preferred to set the internal jumper for the lowest degree of noise reduction as there was some distortion of speech and especially music at the higher settings. If I needed more noise reduction, I could select the narrow bandwidth and noise reduction simultaneously, as described above. The audio bandwidth filtering was the least satisfying feature of the NTR-1, but in all fairness, it is designed to be a wide-band unit for listening to broadcast signals. The narrow bandwidth is in many instances still too wide for effective rejection of adjacent channel interference. This is the area where the NIR-10 really shines, due to its steep filter skirts and adjustable passband shift. The NTR-1's narrow setting was occasionally very useful

on noisy signals in removing high frequency hiss - this sometimes gave better results than engaging the noise reduction function.

The NTR-1 is built to the highest standards and feels very solid in use. There is a one year warranty. If you're looking for the benefits of DSP audio processing at a reasonable price and in a virtually "set and forget" format, the NTR-1 is perfect. If you're looking for maximum performance as regards adjacent channel interference rejection, and don't mind twiddling a few knobs to get it, you should probably go for the more expensive NIR-10. The NTR-1 is available from JPS Communications, P.O. Box 97757, Raleigh, NC 27624; order line 800-533-3819; technical info 919-790-1048.

Hardware Bits

by Alan Johnson

YAESU FRG-100 FILTER UPDATE - Jerry Stuart dropped me a note concerning the excellent service he received from Yaesu in updating the AM filters in his FRG-100. Although Yaesu said the repair time was running 4 to 6 weeks, Jerry got his back in about a week. If you have a FRG-100 that needs the filter upgrade, contact Yaesu USA, 17210 Edwards Road, Cerritos, CA 90701; 310-404-2700.

RADIO SHACK DSP AUDIO FILTER - Radio Shack has entered the DSP arena with a new audio filter. It is the model DSP-40 with a catalog number of 21-543. It provides noise reduction, heterodyne rejection and audio passband filtering (three values for SSB and three for CW) with a built-in speaker for \$79.95. Reports I've seen on the computer bulletin boards indicate that the notch and audio filtering work well, but the noise reduction is not up to the standards set by the JPS Communications products. Remember that Radio Shack has a thirty day unconditional warranty, so if you don't like it, you can return it.

KIWA FILTER FOR NRD 515/525/535 - Kiwa Electronics has announced a filter enhancement for the Japan Radio NRD 515/525/535 receivers. This is a 3.5 kHz bandwidth (at -6 dB) filter with a shape factor of <1.8 to 1 to provide an intermediate selectivity value between the stock 6 and 2.4 kHz bandwidths. The filter is available on a circuit board for installation in one of the optional filter positions on the NRD's filter board for \$73 or the filter can be ordered alone for \$63 and will directly replace the wide filter. Shipping is additional. Installation is available for an additional \$30. Kiwa Electronics, 612 South 14th Ave., Yakima, WA 98902; 509-453-5492 or 800-398-1146.

Listener's Notebook

Hans Johnson
7529 Red Cravat Court
Columbia, MD 21046
CompuServe 73042,3644

COPYRIGHT NOTICE—Items credited to Summary of World Broadcasts are copyright by the BBC Monitoring Service and may not be reproduced without BBCMS permission.

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

DEADLINE for the June *LN* is Wednesday, May 25th.

LACK OF RESPONSE—Since I received zero replies to my query last month as to whether *LN* should include pictures, graphics, etc.; the column will remain in its present form of text only.

MUCH THANKS to Ralph Brandi, who continues to work magic in presenting this column every month. I simply gather information, Ralph makes it readable.

SPECIAL REPORT SPECIAL REPORT SPECIAL REPORT SPECIAL REPORT—Through a spirit of "unity and friendship", *LN* strives to bring you the latest in Dx news. This month *NASWA* member Tony "Ironman" Orr, on special assignment for *LN* in Laos, sends in a report from that country. See **LAOS** and **TIMOR** for Tony's news. (HJ April 26th)

ALBANIA—*Radio Tirana* 6100 is operating with its domestic service on this frequency. (Liangas Contact April via Richard "Quake" D'Angelo)

ARMENIA—*Radio Yerevan* 11790 A new frequency that has English news at 2250. (Bob Padula April 1st)

AUSTRALIA—*AAFR* current schedule is as follows: 0100 0430 and 0900 daily on the following frequencies: 8155 11465 13525 18735 19969 and on Mondays and Fridays at 1600 on 10848.5. (Radio News Bulletin March)

BOLIVIA—*Radio Estacion Frontera* 4449.5 has reactivated, heard on April 21st. (HJ)

Radio San Joaquin 4508 signs off at 0100 and programming prior to sign off consists of Bolivian pop music and a relay of news from television Channel 7 in La Paz. (Klemetz Numero Uno No. 1266 April 8th) Note spelling

is San Joaquin, not Joaquim as HJ had it previously. This is actually a reactivation, not a new station. (Inoue Numero Uno No. 1267 April 15th)

BRAZIL—*Radio Sentinela da Amazonia* 4865 A new frequency, ex 3285. (Moraes WRTHLA via Shortwave News April)

Emisora Rural 4949.6 up from 4945. (Krone Shortwave News April)

Radio Transamerica FM 6105 is being relayed by *Radio Cultura* from 2200-1100. Programming consists of non-stop Brazilian music with announcements every half hour. Reception reports can be sent to: Rede Transamerica-Foz, Caixa Postal 331, CEP 85851-090, Foz do Iguacu, Estado do Parana. (Omia Relampago Dx Logging No. 36 April 1st)

Emisora Rural 11905 no longer uses this frequency. (Moraes WRTHLA via Shortwave News April)

Rádio MEC Paulo Cardoso, Technician, and a verification signer for this station says that they operate irregularly from 0900-1100. Try 5990 9600 11950 17875. (Oliveira Atividade Dx via Play Dx No. 785 April 11th)

Tal ayuki Inoue Nozaki brings us up to date on the Brazilian scene via his Relampago Dx for March. First the bad news, these stations are inactive:

- ¶ *Rádio Vale do Rio Madeira* 3205
- ¶ *Rádio Liberal* 3325
- ¶ *Rádio Equatorial* 3375
- ¶ *Rádio Amarela* 4775
- ¶ *Rádio Portal da Amazonia* 4775
- ¶ *Rádio Caiari* 4785
- ¶ *Rádio Cabocla* 4815
- ¶ *Rádio Por Um Mundo Melhor* 4855
- ¶ *Rádio Sociedade* 4865
- ¶ *Rádio Verdes Florestas* 4865
- ¶ *Rádio Anhanguera-Araguaina* 4905
- ¶ *Rádio Difusora* 4925
- ¶ *Rádio Alvorada* 4965
- ¶ *Rádio Pioneira* 5015
- ¶ *Rádio Borborema* 5025
- ¶ *Rádio Educadora da Bahia* 6020
- ¶ *Rádio Rio Mar* 6160
- ¶ *Rádio Nova Esperança* 6160 9550 11895
- ¶ *Rádio Record* 15135
- ¶ *Rádio Inconfidência* 15190

Other news:

Rádio Alvorada 2460 operates 24 hours.

Rádio Clube de Marília 3235 operates irregularly.

Rádio Clube de Dourados 3374.8 new name.

Rádio Relógio Federal 4904v irregular with poor modulation.

BURUNDI—*Radio Burundi* 6140 An official from this station recently commented on the frequent breakdowns in their transmitter: The transmitter has been breaking down frequently for some time. It is an old transmitter, dating from 1983 but was actually installed in 1987 after being stored in far from satisfactory conditions. Furthermore, spares for the transmitter are no longer manufactured, and there is a big problem in obtaining them.

The station would like to replace the transmitter but cannot afford to do so. The worst and most sensitive breakdown lasted from 17th October to 20th December 1993, a period that coincided with a serious crisis in Burundi with an attempted coup. Many people certainly thought there was some complicity on the part of the radio station, but in fact the breakdown during this period was for technical rather than political reasons. The station was noted on March 19th for the first time since the end of January. (BBCMS Summary of World Broadcasts No. 12 March 25th) *Radio Burundi* was heard again on 6140 on 15th April for the first time since 27th March. (Ibid. No. 16 April 22nd)

BULGARIA—*Radio Bulgaria* The site at Varna now operates on the following schedule: 7240 0200-0300 Bulgarian 0300-0400 Turkish 0400-0430 Greek on Sundays only. 0430-0500 Albanian 0500-0530 Greek 0500-0630 Turkish on Sunday only 0530-0600 Serbo-Croat on 9775 1500-1800 Bulgarian 7260 1930-2015 Greek 2015-2100 Serbo-Croat. All 100 kw. (Berg Numero Uno No. 1266 April 8th)

CANADA—*CFRX* began broadcasting in 1937. *CFCX* has always co-sited with *CFRB*, but has used a separate antenna system. The present *CFRX* array of two 50' vertical towers was originally configured for directional radiation to the northwest. However, several years ago, at a time when there were problems with one of the driven elements, the configuration was changed to omnidirectional, using the southern-most mast.

The original *CFRX* transmitter was designed and built by *CFRB* technical personnel at the first *CFRB* transmitter in Aurora, Ontario. The power output of *CFRX* has always been 1000 watts, although in the latter years of the old transmitter, this was difficult to maintain. Problems continued to appear in the operation and maintenance of the original homebuilt transmitter, with a resulting deterioration in audio quality. Early in 1983 the decision was made to purchase and install a new 1 kW transmitter for *CFRX*. The present transmitter was delivered in December 1983 and was commissioned on the 31st. The new facility is located in a room next to the *CFRB* transmitters.

The transmitter was manufactured by *Elcom-Bauer* of Sacramento, California. The design was basically their Model 701B, with the tank circuit of the final stage redesigned and an RF drive stage added after the standard RF oscillator card. The transmitter is now designated a 701B-HF. It is a classic plate-modulated design and is capable of producing high levels of modulation, continuously, as is required for the 24-hour-a-day operation of *CFRX*.

The program material is derived from the same links as used for *CFRB* and is processed at the *CFRX* audio rack, using CRL processors. The programming is simulcast of *CFRB*'s, except for a *CFRX* id that runs once an hour. (*CFRX* info sheet via *Radio News Bulletin* February)

CHINA—A delegation from *Radio Moscow International* visited China from 5th to 12th April. A protocol on cooperation between *Radio Moscow International* and *China Radio International* was signed in Beijing on 11th April. The document consists of 10 articles. (BBCMS Summary of World Broadcasts No. 16 April 22nd)

CLANDESTINES—Please note that rather than judging a peoples' particular struggle as just or unjust, I place stations/programs under the clandestine listing rather than a unique country listing when they fall into one of two categories: 1—A disgruntled group, government or country outside of a state broadcasts to that state in order provide information and influence events. For instance, the various programs brokered by *RMI* fall into this category. 2—A group is able to broadcast from a particular disputed region. When these regions are not recognized as independent countries by the world community, these stations are considered to be clandestines. These can be groups out of power and on the move, such as the Khmer Rouge, or can be emerging states, such as Eritrea was a few years ago. (HJ Apr 7th)

CLANDESTINES — AFRICA — see RWANDA

CLANDESTINES — EUROPE
MOLDAVIAN REPUBLIC OF PRIDNESTROVIE — Radio Dniester International 9620 has verified with a plain card mentioning that they are transmitting from Grigoriopol site, also known as Kishinev. Also note how the station spells its name. A. Komar, Chief Editor, also kindly enclosed some information on the station and his country. "We are awfully sorry for the bad quality of our signal. The worst of it is that we are not able to get rid of interferences. The Republic of Moldova properly jams our broadcasting. Our station started working in March 1993. It was created in order to tell Europeans and Americans about the situation in Pridnestrovie as we see it. The recognition of the Moldavian Republic of Pridnestrovie is our main purpose. Pridnestrovie is the eastern region of Moldova. Before the collapse of the USSR it was a part of the Moldavian Soviet Socialist Republic. After 1990 all the republics of the former Soviet Union have been facing economic and ethnic problems and Moldova is not an exception. Moldova tried to solve its ethnic problems by force in favour of native population at the expense of other nationalities. Pridnestrovie, whose population is multinational, has proclaimed human rights to be above ethnic ones. Inevitably it led to self-proclaiming of the independent Pridnestrovian republic on September 2, 1990 for providing equal rights for all nationalities. In summer 1992, Moldova attempted to suppress our republic by military actions. The war, as any civil war, has led nowhere. Now ideological pressure by Moldova is continuing. Moldova tries to block any information about our republic. We hope to overcome international blockade with your assistance. The goal of our radio-station is to spread as much information as possible about our young republic, about our proud, independent and free people which has paid with thousands of human lives for its freedom." (HJ April 7th)

CLANDESTINES — LATIN AMERICA—*La Voz del CID* has verified from the following address: AFINSA Portugal, R Ricardo Jorge 53, 4000 Porto, Portugal. Their fax number is 414994. (Liangas via Kropf Contact May)

CLANDESTINES — MIDDLE

EAST—*Al-Quds Radio* A Jordanian magazine recently published an article by a reporter who visited the station (excerpts): When I arrived in Damascus, I immediately began to look for the radio building. Few people were familiar with the place. Therefore, it took me some time before I managed to reach the radio building. It was not a big surprise to me when I found nothing but a small, old four-story building, the first story of which is occupied by the radio station. This building is surrounded by shops and other residential buildings. The only thing that distinguishes it from other buildings is an armed guard standing at its gate. I was not surprised because I knew that the radio officials wanted to keep its location secret so that it would not become an easy target for attacks or acts of sabotage. *Al-Quds Radio* has managed to worry and annoy Israel, which was prompted to jam it despite the high costs amounting to millions of dollars. For this purpose, Israel used jamming devices at the building of the Ramallah radio, something Israel has not done against any other Arab radio. *Al-Quds Radio* began its experimental transmission in 1987, and officially announced its name on 1st January 1988. Only 20 days after the beginning of its official transmission, the Zionists began to jam the radio. The radio broadcasts statements issued by Palestinian resistance factions, which call for strikes and demonstrations. It also transmits patriotic songs and follows Palestinian developments and broadcasts these developments as soon as the necessary information is available. In one occasion, *Al-Quds Radio* was forced to make 56 frequency changes to evade the Zionist jamming. The continuation of these jamming attempts by the enemy gave the workers of the radio lots of experience in changing frequencies quickly—in less than two minutes. It is noteworthy that the radio broadcasts on three bands: the medium, short and FM bands. The radio airs its programmes in seven languages, in addition to Arabic. These languages are: Hebrew, Russian, French, Italian, English, Spanish and Romanian. As a matter of fact, the radio has not thus far received any real feedback from target listeners on these programmes. In an opinion poll conducted in London last year, *Al-Quds Radio* came ahead of both the *BBC*

Arabic Service and *Radio Monte Carlo*. To obtain its news stories, the radio depends on a network of correspondents inside the occupied territories. Correspondents use fax machines to send their news reports to the radio in Damascus. The radio also has subscriptions to several international news agencies; and this enables the radio to cover Arab and international developments. Nonetheless, the radio airs news agency-dated Palestinian news stories only after it receives a confirmation of these stories from its correspondents in the occupied territories. (BBCMS Summary of World Broadcasts No. 14 April 8th) Try 5910 at 0600. I have never seen a schedule that indicated that they were using languages other than Arabic on shortwave. (HJ)

Voice of the Palestinian Islamic Revolution 7230 from 1900-1930 in Arabic. The radio's former frequency (9610) has also been used by the external service of the Voice of the Islamic Republic of Iran. (BBCMS World Broadcasts Schedules No. 15 April 15th)

Voice of Rebellious Iraq, now good, varies between 5555, 5570, 5575, broadcasting in Arabic. (Osborn via Kropf Shortwave News May)

COLOMBIA—*HJZI 15-50* 3100 is the new station name for the harmonic here. This is the former *Radio Fantasia*. Their address is: Calle 22C No. 31-01, Bogota and the verification signer is Luis Fernando Saavedra D. (Klemetz Numero Uno No. 1267 April 15th)

Radio Catolica 3580 is located in Cuatro Esquinas, Tuquerres, Narino Department. (ibid.)

Meridiano 70 4925 has shutdown. (ibid.)

La Voz de Guaviare 6035. I heard 1010-1038 April 13th with rustic music and id as: *Estamos presentando su programa 'Por las Tierras de Colombia', el programa mas sintonizado en la manana en La Voz de Guaviare en la cadena RCN*. Big emphasis on this program being for the campesinos, or rural peasants. For example, *La musica que lleva el sentimiento de nuestros amigos del campo* (The music that carries the feelings of our

friends in the country) and *La mejor musica para nuestros amigos del campo* (The best music for our friends in the country). Read excerpts from several letters from local listeners and asked for others to write in. Fair (Don Moore)

COSTA RICA—The AWR station in Costa Rica, *Radio Lira*, has finished up moving its transmitter site. Originally the antennas and transmitters were located at the Adventist university, just outside Alajuela, Costa Rica—not too far from San Jose. However back about 1990, or maybe it was early 1991, bought the SW transmitters of *Radio Impacto* and Impacto's Cahuita transmitter site on the Caribbean coast a little ways south of Puerto Limon. Impacto had been an anti-Sandinista propaganda station, supposedly a commercial broadcast but more likely a CIA front. Anyway, Impacto had used AM and SW from a site near San Jose to broadcast to Nicaragua. Later when Manuel Noriega became a problem for the US, Impacto added a 50 kW MW (AM) transmitter at Cahuita to broadcast anti-Noriega programming to Panama (really strange behavior for a commercial broadcaster, hi!). But after Noriega had been removed and the Sandinistas lost the election in Nicaragua in 1989–1990, Impacto suddenly closed down and was put on the market. The AM transmitter and transmitter site in San Jose, the only part of the station that had any commercial potential in Costa Rica, were purchased by a popular local radio announcer who wanted his own station. AWR bought the Cahuita site & MW transmitter, plus the shortwave transmitters at the San Jose site. Since then, AWR has been in the process of moving the ex-Impacto SW transmitters to Cahuita, converting the Cahuita MW transmitter to SW, and moving its own Alajuela transmitters to Cahuita. Alajuela is about 100 miles as the crow flies from Cahuita, so by the transmitter site rule, AWR via Alajuela was a different station than AWR via Cahuita. If you logged/QSLed AWR in Costa Rica before 1992 you already have the Alajuela site. If you logged/QSLed them afterwards, you may have either site, depending on the frequency heard. (Don Moore April 8th)

CZECH REPUBLIC—*Radio Prague* continues to use the Rimavska Sobota transmitter site in Slovakia but has stopped using the Velke Kostolany site in the same country. (Radio News Bulletin March)

DJIBOUTI—see FRANCE

DOMINICAN REPUBLIC — Presidential elections will be held in the Dominican Republic on Monday, May 16th. The main candidates are Dr. Joaquin Balaguer—actual president of the country and leader of Partido Reformista Social Cristiano—who received about 35% of the vote in the 1990 presidential elections; Juan Bosch—ex-president of the country and leader of Partido de la Liberacion Dominicana—who received about 34% of the vote in the 1990 election; and Dr. Jose Francisco Pena Gomez—leader of Partido Revolucionaire Dominicano—who received about 25% of the vote in the 1990 elections. The same candidates usually run again and again for office in this country. On May 16, and for perhaps the next two days, there is the possibility stations will be on the air all night long in a network named *La Voz de la Junta Central Electoral*. No independent station identifications will be heard, only this one. [Look for the possibility of shortwave broadcast stations reactivating during this period providing a rare opportunity—RAD]. This lasts about two or three days in total. As usual, some stations drop from the network, but they are not allowed to broadcast any other news or even music during this period. You are either part of the network or silent! (Objio NRC DX News April via Richard "Quake" D'Angelo April 19th)

Some stations to try for, no promises, but if you don't try you won't hear 'em for sure:

- § *Emisora Onda Musical* 4780
- § *Radio Commercial* 4880
- § *Radio Mil* 4940
- § *Radio Cima 100* 4962
- § *Radio Dominicana* 5980 or so.
(HJ April 19th)

EQUATORIAL GUINEA — *Radio Africa* has an English program, *Wonderful Words of Life*, put out by the Salvation Army at 2100 on 7190 Saturdays and on 15190 at 0730 on Thursdays. (Salvation Army Radio Ministry via Rhodes Dx'ers Calling April)

ESTONIA—*Radio Estonia* Criminal charges have been filed against the leadership of this station for possible squandering of public funds. (BBCMS Summary of World Broadcasts No. 13 April 1st)

FRANCE—*Radio France International* According to an AFP interview of 14th April, *RFI's* director general and chairman of the board, said that *RFI* intended to continue "fulfilling the missions" entrusted to it "by the government", particularly by continuing its foreign language broadcasts. In March *RFI* was called into question by an adviser to the minister of communication, who claimed that "people listened to *RFI* to hear French." According to *RFI's* Director General, such remarks demonstrate "a total lack of knowledge of the station's obligations as specified in its terms of reference, by the law and by the instructions given by the government". Additionally, *RFI* and *Africa No 1* are currently engaged in hard bargaining over the renewal of the contract for the use of *Africa No 1* transmitters in in Moyabi, Gabon by *RFI*. The Director wants "a better rate for the French taxpayer" who is financing *RFI*, "knowing that the rates applied by *Africa No 1* are the highest in the world." He also said that *RFI* would like a new transmitter to be built in Djibouti to cover the Indian Ocean and East Africa. According to the director, "it would certainly be cheaper to build a new [transmitting] center than to rent frequencies, as advocated by the supervising bodies". (BBCMS Summary of World Broadcasts No. 16 April 22nd)

GABON—see **FRANCE**

GERMANY—see **RWANDA**

GUAM—*KSDA* is considering installing a fourth transmitter and a fifth antenna. (Radio News Bulletin March) The station has added an Arabic transmission from 1800-1900 on 3720. (Padula Australian Dx News April)

GUYANA—*GBS* is temporarily off shortwave due to the departure (unauthorized) of the wires in the 2x2 curtain. They're looking at ways of getting back on the air. (Dan Ferguson April 16th)

HONDURAS—*La Voz de CentroAmerica* 2119 Second harmonic of 1060; heard both morning and evenings. (Moore Fine Tuning No. 733 March 30th)

Radio Litoral 4830 The station's call is *HRLW*. They are using 500 watts in a 96 horizontal, 30 foot up. The first went on the air on May 15, 1993. Their address is Radio Litoral, La Ceiba, Atlantida. (Berg Numero Uno No. 1264 March 25th)

La Voz Evangelica Mosquitia 4910.6 has reactivated. (Dave Valko April 3rd)

Radio Internacional 4930.6 0225-0335, A new station heard with program of live preaching with occasional live religious music. 0327 complete canned ID by man: *Este es R. Internacional transmitemo desde San Pedro Sula, Honduras, Centro America. Frecuencia ? 91.9 FM, 1220 onda media, y 4930 khz en la banda internacional de 60 metros. A nuestro ? en centro, sur, norte. ? Europa ? escucha. R. Internacional, Apartado Correo 1473 (not 100% sure abt the "3"). San Pedro Sula, Honduras, Centro America.* Note that the Apartado # doesn't match up with the WRTH. (Dave Valko April 16th)

HUNGARY—*Hungarian Radio* Sacked radio employees under retirement age should be reappointed, the fact-finding delegation of the International Federation of Journalists (IFJ), uniting 300,000 journalists from 90 countries, concluded after a 44-hour stay in Hungary. On 4th March, 91 state radio employees were dismissed and 38 sent to retirement, including several leading editors and reporters. Opposition parties accuse the government of having given their tacit support for the firings, which also affected a number of journalists known for their oppositional views. The head of the IFJ believed that the employees were dismissed for political reasons while the station maintains that were let go for financial reasons. (BBCMS Summary of World Broadcasts No. 13 April 1st)

INDIA—The best replies from *AIR* stations seem to come direct from Delhi. *AIR* regionals do not seem to be trusted to answer direct anymore. (Foster OZDX No. 90 April)

AIR is relaying *United Nations Radio* from 1346-1401 and 1930-1945 on 9565, 11760, 11810 and 15110. (Shortwave Feedback via Famularo Shortwave Radio Today April via Fred Kohlbrenner) Also on 13750. (Ogrizek Australian Dx News April)

see **PAKISTAN**

INDONESIA—*RRI Gorontalo* 2160 Second harmonic of 1080 heard here. (Foster OZDX No. 90 April)

Unid 2246 Probably a harmonic. (ibid.)

RRI Cirebon 2390 Has apparently reactivated here. (ibid.)

Radio Ron 2538 Amatir station. (Indonesian DX Club via Foster OZDX No. 90 April)

Unid 2582 Hears at 1420. (Foster OZDX No. 90 April)

Radio Arisa 2658 Amatir station located in Jakarta. (Indonesian Dx Club via Foster OZDX No. 90 April)

Unid 2698 Probably *Suara Mitra*, an Amatir station. (Foster OZDX No. 90 April)

Unid 2745 Heard at 1250. (ibid.)

Unid 2858 Heard at 1422. (ibid.)

Radio Orisa 2884 Amatir station located in Bandar Lampung. (Indonesian Dx Club via Foster OZDX No. 90 April)

Radio Rama 2900 Amatir station located in Jakarta. Heard until 1900 sign off. Address is Jl. Perjuangan Raya 25, Kebon Jeruk, Jarkarta Barat. (ibid.)

Unid 2964 Heard at 1424. (Foster ibid.)

RSPDT2 Halmahera Tengah 3126v, Soasiu (on Tidore Island, just south of Ternate), Maluku, heard April 24th from 0920 past 1300. The station relayed news from Ternate at 1100. (Martin, World Radio Report Dx Ontario May)

RRI Banjarmasin 3250 Now signing on at 2100. (Foster OZDX No. 90 April)

RPDT2 Poso 3580 was heard April 24 on its usual 3580.3 with an ID after a relay of news from *RRI Palu* at 1108; fairly decent signal implies the possibility of a new transmitter. (Martin, World Radio Report Dx Ontario May)

RSPKDT2 Masohi 3587.2 is probably operating here now, ex 3578.3. (ibid.)

RRI Kendari 4000 QSL arrived from this new address: Jalan La Ute No. 44, Mandonga (Lare Fine Tuning No. 735 April 16th)

RRI Ambon 4845.2 has reactivated here and has been heard past its sign off time of 1132. (David Clark March 27th)

Radio Suara Kasih Agung 4881 Still inactive, I hope they did not move to mediumwave. (Foster OZDX No. 90 April)

RRI Biak 5497v Has reactivated after being off six years. Heard at 1217. (Martin, Foster ibid.) This was reported as an unid *RPD* station last month. (HJ April 26th) But not heard since April 24th. (Martin World Radio Report Dx Ontario May)

RRI Tual 5984.3 A new station, heard until 1409. (Martin, Foster OZDX No. 90 April) Presume that this is the old transmitter of *RRI Pekanbaru*. (TIN Relampago Dx No. 36 April 1st) Power is at least 10 kW. (Martin, Clark World Radio Report Dx Ontario May)

RRI Jakarta 9680 has reactivated after a two months absence. (David Clark April 2nd)

see also **TIMOR** (Portuguese Timor)

ITALY—*Teleradio Stereo* 6012 has reportedly improved its modulation. (Monferini OZDX No. 90 April)

IRRS 7125 Both *Radio Budapest* (1430-1500) and *Radio Bulgaria* (1500) are operating co-channel with this station and *IRRS* is asking listeners to write the two stations and ask them to move to another frequency. (Alfredo Controneo April 5th)

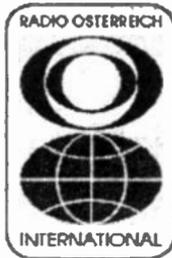
KAZAKHSTAN—According to TASS, A drastic restructuring of republican television and radio has started in Kazakhstan. In accordance with a decree signed by President Nursultan Nazarbayev today, the state TV and



English Language Shortwave Broadcast Schedules May 1993



RADIO RSA



VOICE OF NIGERIA



RADIO COPAN INTERNACIONAL

Thomas R. Sundstrom
TRS Consultants
PO Box 2275
Vincentown, NJ 08088-2275

Phone (609) 859-2447
Fax (609) 859-3226
Pics OnLine BBS (609) 753-2540

MCI Mail: 244-6376
GErie: T.SUNDSTROM
Internet: 2446376@mcimail.com
CompuServe: via MCI gateway

Contributions from NASWA members and broadcasters are welcome. Please fax, email, or send schedules and other contributions by the monthly deadline of Wednesday before the last Saturday of the month. Broadcasters, please place us on your mailing list.

SCHEDULES BY SUNDBROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0000	0015	United Kingdom	BBC World Service	9590.0	7325.0	7325.0	6175.0							NAm		04/13/94
0000	0015	United Kingdom	BBC World Service	15260.0	11750.0	9915.0	7325.0	5975.0						CAM/SAm/Carib		04/14/94
0000	0027	Czech	R Prague	9485.0	7345.0									NAm		03/27/94
0000	0030	Australia	R Australia	17860.0	17750.0	15510.0	15365.0	13605.0	13605.0					As/Pac/PapNG		03/09/94
0000	0030	USA	VOA	15205.0	15120.0	11580.0	9775.0	7405.0	5995.0					Americas		04/27/94
0000	0030	Yugoslavia	R Yugoslavia	11870.0	9580.0									NAm	'exc Su' (may be UT Mo)	04/02/94
0000	0050	North Korea	R Pyongyang	15130.0	13760.0	11335.0								Am		11/22/92
0000	0055	China	China R Int'l	11715.0	9780.0									wNAm/eNAm		10/24/93
0000	0100	Costa Rica	AWR LAm	13750.0	9725.0	5030.0								LAm		04/08/94
0000	0100	Guam	KSDA	17645.0										seAs		03/08/94
0000	0100	Russia	R Moscow Int'l	15425.0	11805.0	11750.0	9765.0	9530.0						World Service		03/29/94
0000	0100	Spain	Spanish National Radio	9540.0										NAm		10/03/93
0000	0100	Ukraine	R Ukraine Int'l	15580.0	15180.0	12030.0	11720.0	10035.0	9860.0	9685.0	7285.0			NAm/Eu	as obs	04/24/94
0000	0100	United Kingdom	BBC World Service	7325.0	648.0	198.0								Eu		04/12/94
0000	0100	USA	VOA	11695.0	9455.0	6130.0	930.0							Caribbean		04/26/94
0000	0100	USA	VOA	17735.0	15290.0	15185.0	11760.0	9770.0	7215.0	1575.0				eAs/seAs/Pac		04/27/94
0000	0100	USA	WSHB/1	5850.0	5850.0									eNAm/Carib		09/12/93
0000	0100	USA	WYFR	6085.0										NAm	Network Tu-Su	03/24/93
0000	0200	Cuba	R Havana	9815.0	6010.0									eNAm		04/28/93
0000	0200	Philippines	FEBC	15450.0										seAs/India		01/26/94
0000	0200	USA	KCBI	13740.0										NAm		02/06/94
0000	0200	USA	KWHR	17510.0										Pac		03/08/94
0000	0200	USA	WSHB/2	9430.0										cAm/SAm	alt 7465	02/18/94
0000	0230	USA	KVOH	17775.0										CAM/Carib	Tu-Sa	05/30/93
0000	0700	USA	WWCR	5810.0										Eu/ME/nA1	tx #3	03/25/94
0000	0800	USA	WHRI	9495.0	7315.0									Carib/eNAm	separate pgm 00-05	06/16/93
0000	0800	USA	WWCR	7435.0										Eu/ME/nA1	tx #1	03/25/94
0000	1100	USA	WINB	11950.0										Mexico		12/30/93
0000	1600	USA	KTBN	7510.0										eNAm		09/25/92
0000	2400	Canada	CFCX	6005.0										Canada	relay CFCF-600	01/27/92
0000	2400	Canada	CFRX	6070.0										Canada	relay CFRB-1010	01/28/91
0000	2400	Costa Rica	R for Peace Int'l	21464.9	15029.8	9400.0	7374.8							LAm/NAm		03/11/94
0000	2400	USA	WJCR	17595.0	13595.0	7490.0								neNAm/Eu/ME/CA/SA		04/10/94
0015	0030	United Kingdom	BBC World Service	7325.0	7325.0	6175.0								NAm		04/12/94
0015	0230	United Kingdom	BBC World Service	15260.0	11750.0	9915.0	9590.0	7325.0	5975.0					CAM/SAm/Carib	9590:Carib.Rpt.145-200.Tu-	04/14/94
0030	0100	Australia	R Australia	17880.0	17750.0	15510.0	15240.0	13605.0	11880.0	11720.0				As/Pac/PapNG		06/16/93
0030	0100	Australia	R Australia	17860.0	17795.0	15415.0	15365.0	13755.0	13605.0					As/Pac/PapNG		03/09/94
0030	0100	Sweden	R Sweden	9850.0	6065.0									LAm		01/25/94
0030	0100	USA	VOA	15205.0	15120.0	11580.0	9775.0	7405.0	5995.0	1580.0	1530.0			Americas	#7&8 nCAM	04/27/94
0030	0127	Netherlands	R Netherlands	9840.0	6165.0	6020.0								eNAm		03/08/94
0030	0127	Netherlands	R Netherlands	12025.0	9860.0									sAs		03/08/94

SCHEDULES BY SINOSTROM

Xmsa Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0030	0330	United Kingdom	BBC World Service	7325.0	7325.0	6175.0								NAm		04/12/94
0030	0430	Ecuador	HCB	21455.0	17490.0	11925.0	9745.0							NAm		04/14/94
0040	0055	Venezuela	R Nacional de Venezuela	9540.0										SAm	news/Eng Tu-Su	06/06/91
0050	0110	Italy	RAI	11800.0	9725.0	6005.0								NAm		03/11/94
0100	0127	Czech	R Prague	9485.0	7345.0									NAm		03/27/94
0100	0130	Hungary	R Budapest	11910.0	9835.0	6025.0								NAm		04/20/94
0100	0130	Norway	R Norway Int'l	11925.0	9560.0									NAm/SAm	Mo only	03/24/94
0100	0130	Slovakia	R Slovakia Int'l	9810.0	7310.0	5930.0								NAm		10/04/93
0100	0130	Switzerland	Swiss R Int'l	9885.0	6135.0	5905.0								NAm/CAM		02/05/94
0100	0145	United Kingdom	BBC World Service	7325.0	648.0	198.0								Eu		04/12/94
0100	0150	Germany	R Deutsche Welle	11865.0	9700.0	9650.0	6145.0	6085.0	6040.0					NAm		03/08/94
0100	0159	Canada	R Canada Int'l	11940.0	11845.0	9755.0	9535.0	9120.0						Carib/LAM/NAM		03/18/94
0100	0200	Japan	R Japan	17845.0	17810.0	15195.0	11910.0	11860.0	11840.0					GOS:As		03/21/94
0100	0200	Japan	R Japan	9610.0	5960.0									GOS:NAM		04/10/94
0100	0200	Russia	R Moscow Int'l	15425.0	11805.0	11750.0	9765.0	9530.0						World Service		03/29/94
0100	0200	Slovakia	AWR Eu	9465.0										India		04/08/94
0100	0200	South Korea	R Korea	15575.0										Am		10/03/93
0100	0200	South Korea	R Korea	7550.0										Eu		10/03/93
0100	0200	Spain	Spanish National Radio	9540.0										NAm		10/03/93
0100	0200	USA	VOA	15205.0	15120.0	11580.0	9775.0	9455.0	7405.0	6130.0	5995.0	1580.0	1530.0	Americas	#9&10 nCAm	04/27/94
0100	0200	USA	WEWN	13710.0										India	"Program C"	09/11/93
0100	0200	USA	WSHB/1	5850.0										cNAM		09/12/93
0100	0300	USA	VOA	17740.0	15250.0	15170.0	11705.0	7651.0	7205.0	7115.0				sAs		04/27/94
0100	0300	USA	WYFR	15440.0	9505.0	6085.0								NAm	#2&3 Network Tu-Su	03/24/93
0100	0400	Australia	R Australia	21595.0	17880.0	17750.0	17715.0	15240.0	11880.0	11720.0				As/Pac/PapNG		03/09/94
0100	0600	Australia	R Australia	17860.0	17795.0	15415.0	15365.0	15240.0	13605.0					As/Pac/PapNG		03/09/94
0130	0140	Greece	V of Greece	11645.0	9420.0	9380.0								NAm	News/Eng	04/09/94
0130	0200	Albania	R Tirana	11840.0	9580.0									NAm		10/27/93
0130	0200	Austria	ORF	9655.0										NAm		09/25/93
0130	0200	Austria	ORF	13730.0	9870.0									LAM		03/25/94
0130	0200	Portugal	R Portugal	11840.0	9705.0	9635.0	9570.0	9555.0						SAm/NAM	Tu-Sa	04/01/94
0130	0200	Sweden	R Sweden	11695.0	9695.0									As/Pac		09/24/93
0130	0227	Netherlands	R Netherlands	12025.0	9860.0									sAs		03/08/94
0140	0200	Vatican State	Vatican Radio	9650.0	7335.0									As/AusNZ		04/24/94
0145	0200	United Kingdom	BBC World Service	7325.0	648.0	198.0								Eu		04/12/94
0200	0230	Norway	R Norway Int'l	7165.0	6115.0									sAs/NAM/CAM	Mo only	10/31/93
0200	0230	Philippines	FEBC	15450.0										seAs/India	Mo-Fr	01/26/94
0200	0230	USA	VOA	15205.0	15120.0	11580.0	9775.0	7405.0	5995.0					Americas	Tu-Sa	04/27/94
0200	0250	Germany	R Deutsche Welle	15185.0	12045.0	11965.0	11945.0	9690.0	9650.0	9615.0	7285.0	1548.0		sAs		03/08/94
0200	0255	Romania	R Romania Int'l	11940.0	11830.0	9570.0	9510.0	6155.0						NAm		05/22/93
0200	0259	Canada	R Canada Int'l	11940.0	11845.0	9755.0	9535.0	9120.0						Carib/LAM/NAM		03/18/94

5-3

SCHEDULES BY SUNDBTROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0200	0300	Argentina	RAE	11710.0										Americas	Tu-Sa	12/04/93
0200	0300	Guam	KSDA	13720.0										China	Sa-Su	04/04/92
0200	0300	Russia	R Moscow Int'l	15425.0	11805.0	9765.0	9685.0	9530.0						World Service		03/29/94
0200	0300	Taiwan	V of Free China	9680.0	5950.0									NAm		10/09/93
0200	0300	Taiwan	V of Free China	15345.0										Jap/Kor		10/09/93
0200	0300	Taiwan	V of Free China	9765.0										AusNZ		10/09/93
0200	0300	Taiwan	V of Free China	11860.0										Malay/Viet/windon		10/09/93
0200	0300	Taiwan	V of Free China	11740.0										CAM		10/09/93
0200	0300	United Kingdom	BBC World Service	9410.0	7325.0	6195.0	648.0	198.0						Eu		04/12/94
0200	0300	USA	WSHB/1	5850.0										wNAm		09/12/93
0200	0300	USA	WSHB/2	9430.0										Mex	alt 7465	02/18/94
0200	0330	Egypt	R Cairo	11600.0	9475.0									NAm		07/25/93
0200	0400	Cuba	R Havana	9510.0	6010.0									cNAm/eNAm		11/09/93
0200	0400	USA	KWHR	17510.0										eAs		04/22/94
0200	1200	USA	WWCR	5935.0										Eu/ME/nAI	bx #2	03/25/94
0210	0215	Turkmenistan	V of Turkmen	5015.0	4825.0									ME	Mo-Salirregular	03/31/94
0230	0245	Albania	R Tirana	11840.0	9580.0									NAm		08/11/93
0230	0245	Pakistan	R Pakistan	21730.0	17725.0	17705.0	15190.0	7290.0						s&seAs	Slow-speed news	03/19/94
0230	0300	Hungary	R Budapest	11910.0	9835.0	6025.0								NAm		04/20/94
0230	0300	Sweden	R Sweden	9850.0	6040.0									NAm		02/26/94
0230	0300	United Kingdom	BBC World Service	15260.0	11750.0	9915.0	5975.0							SAm/Carib		04/14/94
0230	0327	Netherlands	R Netherlands	12025.0	9860.0									sAs		03/08/94
0230	0330	Philippines	R Philipinas	21580.0	17840.0	17760.0								eAs		08/27/91
0250	0315	Vatican State	Vatican Radio	7305.0	6095.0									NAm		12/11/93
0300	0327	Czech	R Prague	7345.0	5930.0									NAm		01/16/94
0300	0330	Japan	R Japan	15230.0	11885.0	11880.0								Reg Svc:NAm/Hawaii		03/27/94
0300	0330	United Kingdom	BBC World Service	9410.0	9410.0	7325.0	6195.0	6180.0	648.0	198.0				Eu		04/12/94
0300	0330	United Kingdom	BBC World Service	15260.0	11750.0	9915.0	5975.0	930.0						SAm/Carib		04/14/94
0300	0350	Germany	R Deutsche Welle	11715.0	9700.0	9640.0	9535.0	6185.0	6120.0					NAm		03/08/94
0300	0350	Turkey	V of Turkey	9445.0										NAm		03/19/94
0300	0355	China	China R Int'l	11715.0	9780.0	9690.0								wNAm/eNAm		10/24/93
0300	0400	Honduras	HRPC	3250.0										Am	Su-Mo	02/29/92
0300	0400	Japan	R Japan	17845.0	17810.0	15210.0								GOS:As		03/20/94
0300	0400	Japan	R Japan	9610.0										GOS:NAm		04/10/94
0300	0400	Russia	R Moscow Int'l	15425.0	12070.0	9765.0	9750.0	9685.0	9530.0					World Service		03/29/94
0300	0400	Taiwan	V of Free China	9680.0	5950.0									NAm		10/09/93
0300	0400	Taiwan	V of Free China	15345.0										Jap/Kor		10/09/93
0300	0400	Taiwan	V of Free China	9765.0										AusNZ		10/09/93
0300	0400	Taiwan	V of Free China	11745.0										eindon/Phil		10/09/93
0300	0400	Ukraine	R Ukraine Int'l	15580.0	15180.0	12030.0	11720.0	10035.0	9860.0	9685.0	7285.0			NAm/Eu	as obs	04/24/94
0300	0400	USA	VOA	9885.0	9575.0	7430.0	7405.0	7280.0	7265.0	7105.0	1530.0	621.0		Africa		04/27/94

SCHEDULES BY SUNDBROM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0300	0400	USA	WSHB/1	5850.0										NAm		09/12/93
0300	0425	Guatemala	TGNC	3300.0												12/23/87
0300	0500	Honduras	HRVC	4820.1												11/07/93
0300	0500	South Africa	Channel Africa	5995.0	3220.0									Am	Mo	03/25/94
0300	0500	USA	WEWN	7425.0										NAm	*Program A*	09/11/93
0300	0500	USA	WYFR	9505.0	6085.0									NAm	Network Tu-Sa	03/24/93
0300	0555	South Africa	Radio Oranje	3230.0										nwCape/Namibia		03/22/94
0300	0700	Lebanon	Wings of Hope	11530.0										ME	Sa	11/24/93
0300	0700	Lebanon	Wings of Hope	11530.0										ME	Su	11/24/93
0300	1100	Lebanon	Wings of Hope	11530.0										ME	Mo-FriUniv Network -07	11/24/93
0300	1400	USA	KCBI	9815.0										NAm		02/06/94
0315	0345	Vatican State	Vatican Radio	9695.0	7360.0									eAI		12/11/93
0330	0357	Czech	R Prague	5930.0										NAm		03/27/94
0330	0357	Czech	R Prague	11640.0	9440.0									ME/eAI		03/27/94
0330	0400	Sweden	R Sweden	9850.0	6040.0									NAm		02/19/94
0330	0400	United Arab	R Dubai	21485.0	15400.0	13675.0	11945.0							NAm		07/27/93
0330	0400	United Kingdom	BBC World Service	9410.0	9410.0	6195.0	6180.0	648.0	198.0					NAm	648: 0345-	04/12/94
0330	0427	Netherlands	R Netherlands	9590.0	6165.0									NAm		03/23/94
0330	0430	Bulgaria	R Bulgaria	11720.0	9700.0									NAm		04/11/94
0330	0430	United Kingdom	BBC World Service	6175.0										SAm/Carib		04/13/94
0330	0430	United Kingdom	BBC World Service	5975.0										At	9615 -.0409	04/13/94
0330	0500	United Kingdom	BBC ALT AFRICA	9615.0	6190.0	6005.0	6005.0	3255.0	1197.0					NAm	News/Eng ex Su	04/09/94
0340	0350	Greece	V of Greece	11645.0	9420.0	9380.0								SAm	news/Eng Tu-Su	06/06/91
0340	0355	Venezuela	R Nacional de Venezuela	9540.0										NAm		10/27/93
0345	0400	Armenia	R Yerevan	17690.0	17605.0	10344.0	7105.0							As		03/31/94
0345	0400	Tajikistan	R Tajikistan	7245.0	1143.0	648.0								NAm/wEu		03/27/94
0400	0415	Israel	Kol Israel	11605.0	9435.0									Aus/As		03/27/94
0400	0415	Israel	Kol Israel	17545.0										NAm		09/27/93
0400	0425	Romania	R Romania Int'l	11940.0	11830.0	9570.0	9510.0	6155.0						Eu		04/12/94
0400	0429	Canada	R Canada Int'l	15275.0	11925.0	11905.0	9650.0							Africa		04/27/94
0400	0430	Namibia	Namibian B/C Corp	3290.0	3270.0									ME		03/18/94
0400	0430	Switzerland	Swiss R Int'l	9885.0	9860.0	6135.0								NAm	rx/English	12/27/92
0400	0430	United Kingdom	BBC World Service	9410.0	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0	3955.0	648.0	198.0	Eu		09/27/93
0400	0430	USA	VQA	9575.0	7405.0	7280.0	7265.0	1530.0	621.0					Africa		04/12/94
0400	0430	USA	VQA	15205.0	11965.0	7200.0	7170.0	6873.0	6040.0	6010.0	5995.0	792.0		ME/nAI/Eu		04/27/94
0400	0450	Germany	R Deutsche Welle	9765.0	9565.0	7225.0	7150.0	6185.0	6015.0	5980.0				e&c&SAI		03/08/94
0400	0450	North Korea	R Pyongyang	17765.0	15230.0	15180.0								seAs		07/15/90
0400	0455	China	China R Int'l	11840.0	11680.0									wNAm		03/18/94
0400	0500	Cuba	R Havana	9510.0	6180.0	6010.0								nNAm/eNAm	#1 -0430	11/09/93
0400	0500	Russia	R Moscow Int'l	15425.0	12070.0	9880.0	9765.0	9750.0	9685.0	9655.0	9530.0			World Service		03/29/94
0400	0500	Slovakia	AWR Eu	9455.0										eAI		03/31/94

SCHEDULES BY SUNDSTROM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0400	0500	Slovakia	AWR Eu	11610.0										Algh/Pakis		03/31/94
0400	0500	United Kingdom	BBC ALT AFRICA	9600.0										M		04/13/94
0400	0500	United Kingdom	BBC World Service	12095.0	12095.0									Eu		04/14/94
0400	0500	USA	WCSN	9840.0										M		02/18/94
0400	0500	USA	WSH8/1	7465.0										eEu/CIS		12/04/93
0400	0530	Australia	R Australia	21595.0	17880.0	17750.0	17715.0	11880.0	11720.0					As/Pac/PapNG	#2&4 Eng Sa-Su 04-05	03/09/94
0400	0700	USA	WMLK	9465.0											Mo-Sa	08/30/89
0400	0700	USA	WRNO	7395.0										NAm/CAM		10/28/93
0400	0800	USA	KVOH	9785.0										CAM/Carib	Univ Network	05/29/93
0400	0800	USA	KWHR	17780.0										eAs		04/22/94
0415	0440	Italy	RAI	9575.0	7275.0									Mediterranean		07/23/93
0430	0500	Ecuador	HCJB	21455.0										"Worldwide"		04/14/94
0430	0500	Finland	R Finland	15440.0	11755.0	9655.0	6120.0	963.0	558.0					ME/eAl		04/20/94
0430	0500	United Kingdom	BBC ALT EUROPE	3955.0	198.0									Eu	198: Mo-Sat	04/19/94
0430	0500	United Kingdom	BBC World Service	9410.0	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0	648.0	198.0		Eu	198: Sundays	04/17/94
0430	0500	United Kingdom	BBC World Service	5975.0										CAM/NAM		04/11/94
0430	0500	USA	VOA	9575.0	7405.0	7280.0	7265.0							Africa		04/27/94
0430	0500	USA	VOA	15205.0	11965.0	7200.0	7170.0	6873.0	6040.0	6010.0	5995.0	3980.0	792.0	ME/nAl/Eu		04/27/94
0430	0500	Yugoslavia	R Yugoslavia	11870.0	9580.0									wNAM		04/01/94
0430	0530	Swaziland	Trans World Radio	7125.0										cAl		04/14/94
0430	0530	Swaziland	Trans World Radio	6070.0										Cape		04/14/94
0445	0515	Sri Lanka	SLBC	15425.0	9720.0									wNAM	Tu	03/26/92
0450	0530	Swaziland	Trans World Radio	5055.0										sAl		04/14/94
0459	0758	New Zealand	R New Zealand Int'l	11900.0										Pacific		04/22/94
0500	0515	Switzerland	Swiss R Int'l	6165.0	3985.0									Eu		04/23/94
0500	0520	Vatican State	Vatican Radio	6245.0	3950.0	1530.0								Eu		03/22/94
0500	0529	Canada	R Canada Int'l	17840.0	15430.0	7295.0	6150.0	6050.0						Al/ME/Eu	For Peacekeeping Forces	03/18/94
0500	0530	Norway	R Norway Int'l	11865.0	9590.0	9560.0	7165.0							wNAM/NZ/Eu	Su only	03/24/94
0500	0530	USA	VOA	15205.0	11965.0	7200.0	7170.0	6873.0	6140.0	6040.0	5995.0	3980.0	792.0	ME/nAl/Eu		04/27/94
0500	0530	Vatican State	Vatican Radio	15090.0	11625.0	9695.0								e&sAl		09/12/93
0500	0550	Germany	R Deutsche Welle	11705.0	9670.0	9515.0	5960.0							NAM		03/08/94
0500	0553	Seychelles	FEBA	17750.0										ME	Fr	09/24/93
0500	0600	Japan	R Japan	17810.0	15410.0	11740.0								GOS:As		09/03/93
0500	0600	Japan	R Japan	11885.0	9725.0	9610.0								GOS:NAM		03/20/94
0500	0600	Japan	R Japan	7230.0	5975.0									GOS:Eu		03/20/94
0500	0600	Namibia	R Namibia	3270.0											Sulper MN 2-14-91	03/14/91
0500	0600	Russia	R Moscow Int'l	15590.0	15420.0	9880.0	9750.0	9685.0	9655.0	9530.0				World Service		03/29/94
0500	0600	South Africa	Channel Africa	9695.0	5955.0									wAl/sAl		03/22/94
0500	0600	Spain	Spanish National Radio	9540.0										NAM		10/08/93
0500	0600	Thailand	R Thailand	11905.0	9655.0	4830.0								seAs		08/15/93
0500	0600	United Kingdom	BBC World Service	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0	3955.0	648.0			Eu		04/17/94

9-5

SCHEDULES BY SUNDSTROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0500	0600	United Kingdom	BBC World Service	15400.0	12095.0	12095.0								Eu		04/14/94
0500	0600	United Kingdom	BBC World Service	9640.0	9640.0	5975.0								NAm/CAM/SAM		04/19/94
0500	0600	USA	VOA	15600.0	12080.0	9665.0	7405.0	6035.0						Africa		04/27/94
0500	0600	USA	WCSN	9840.0										AI		02/18/94
0500	0600	USA	WYFR	11580.0	9870.0									Eu/AI		03/08/94
0500	0700	Cuba	R Havana	9510.0										wNAM		12/11/92
0500	0700	Ecuador	HCJB	21455.0	11925.0									NAm		03/21/93
0500	0700	Nigeria	V of Nigeria	7255.0										wAI		07/23/91
0500	0700	USA	WYFR	5985.0										NAm		10/08/93
0500	2015	Italy	Italian Radio Relay Serv	7125.0										Eu/nAI/ME		03/24/94
0530	0555	Romania	R Romania Int'l	17790.0	17745.0	17720.0	15380.0	15250.0						AI		11/24/93
0530	0600	Australia	R Australia	21595.0	17880.0	17715.0	17670.0	11880.0	11720.0					As/Pac/PapNG	#2&4 Eng Sa-Su	03/09/94
0530	0600	Austria	ORF	6015.0										NAm		03/25/94
0530	0600	Georgia	R Georgia	11910.0										Eu		04/16/94
0530	0600	United Arab	R Dubai	21700.0	17830.0	15435.0								seAs/Aus		05/06/91
0530	0600	United Kingdom	BBC ALT EUROPE	15360.0	6180.0	3955.0								Eu	M-Sa	04/19/94
0530	0600	United Kingdom	BBC World Service	6180.0	3955.0									Eu	Sunday	04/19/94
0530	0600	USA	VOA	15205.0	11965.0	7200.0	7170.0	6873.0	6140.0	6040.0	5995.0	3980.0		ME/nAI/Eu		04/27/94
0530	0735	Swaziland	Trans World Radio	9650.0										Cape		04/14/94
0530	0735	Swaziland	Trans World Radio	6070.0										sAI		04/14/94
0555	0825	Malaysia	V of Malaysia	15295.0	9750.0	6175.0								Aus/NZ/Indonesia		04/30/89
0600	0615	United Kingdom	BBC World Service	15575.0	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0				Eu		04/17/94
0600	0627	Czech	R Prague	9505.0	7345.0	5930.0								Eu		03/27/94
0600	0630	Australia	R Australia	21595.0	17880.0	17715.0	17670.0	11880.0	11720.0					As/Pac/PapNG		03/09/94
0600	0630	Australia	R Australia	17795.0	15240.0	13605.0								As/Pac/PapNG		03/09/94
0600	0630	Switzerland	Swiss R Int'l	15430.0	13635.0	9885.0								AI		04/23/94
0600	0630	Switzerland	Swiss R Int'l	6165.0	3985.0									Eu		04/23/94
0600	0630	United Kingdom	BBC ALT AFRICA	17885.0	15420.0	15400.0	11940.0	9600.0	6190.0	6005.0	6005.0			AI		04/17/94
0600	0630	USA	VOA	15600.0	12080.0	12035.0	11950.0	9665.0	9530.0	7405.0	6035.0	1530.0		Africa		04/27/94
0600	0650	Germany	R Deutsche Welle	21680.0	17875.0	17820.0	15205.0	15185.0	13790.0	11915.0				wAI		03/08/94
0600	0650	North Korea	R Pyongyang	15230.0	15180.0									seAs		07/15/90
0600	0700	Italy	AWR Europe	7230.0										Eu/nAI/ME		04/08/94
0600	0700	Japan	R Japan	21610.0	11860.0									GOS/As		03/21/94
0600	0700	Russia	R Moscow Int'l	15590.0	15420.0	12010.0	9750.0							World Service		03/29/94
0600	0700	Slovakia	AWR Eu	13715.0										c&wAI		03/31/94
0600	0700	South Africa	Channel Africa	15220.0	5955.0									wAI/sAI		03/22/94
0600	0700	South Korea	R Korea	15155.0	11945.0									wNAM		10/03/93
0600	0700	United Kingdom	BBC World Service	15070.0	12095.0	12095.0	12095.0							Eu		04/14/94
0600	0700	USA	VOA	11965.0	11805.0	7325.0	7170.0	6873.0	6140.0	6060.0	6040.0	5995.0	3980.0	ME/nAI/Eu		04/27/94
0600	0700	USA	WCSN	9870.0										Eu		04/20/94
0600	0700	USA	WEWN	13710.0										sAI	*Program D*	09/11/93

SCHEDULES BY SUNDBROM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0600	0730	United Kingdom	BBC World Service	9640.0	9640.0									CAM/SAM		04/19/94
0600	0750	South Africa	Radio Orange	5965.0										nwCape/Namibia		03/22/94
0600	0800	Malta	V of the Mediterranean	9765.0	1557.0									ME		02/16/94
0600	0800	USA	WEWN	7425.0										NAM	"Program A"	09/11/93
0600	0800	USA	WSHB/1	9840.0										UK/wEu		04/20/94
0600	0800	USA	WYFR	13695.0	11770.0	7355.0								Eu/Al		03/08/94
0600	0830	Kiribati	R Kiribati	9825.0										Pacific	0.5 kw	09/04/93
0600	0830	Liberia	ELWA	4760.0										Regional	Sa-12ISu-10	09/25/93
0600	1500	Namibia	R Namibia	7165.0											-16 SaSu IMN 2-14-91	03/14/91
0615	0630	United Kingdom	BBC World Service	15575.0	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0				Eu		04/16/94
0630	0645	Vatican State	Vatican Radio	15210.0	11740.0	9645.0	7250.0	6245.0	3950.0	1530.0				ME/Eu/wCIS	Mo-Sa	03/22/94
0630	0655	Belgium	R Vlaanderen Int'l	9925.0	6015.0									Aus/Eu		03/19/94
0630	0700	Australia	R Australia	21725.0	17880.0	11670.0	15240.0	11880.0	11720.0					As/Pac/PapNG		03/09/94
0630	0700	Australia	R Australia	17795.0	15240.0	13605.0	11910.0	9860.0	9580.0					As/Pac/PapNG		03/09/94
0630	0700	Austria	ORF	6015.0										NAM		03/25/94
0630	0700	United Kingdom	BBC ALT AFRICA	17885.0	17885.0	15420.0	15420.0	15400.0	11940.0	9600.0	6190.0	6005.0	6005.0	Al		04/17/94
0630	0700	United Kingdom	BBC World Service	15575.0	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0				Eu		04/16/94
0630	0700	USA	VOA	15600.0	12080.0	11950.0	9665.0	9530.0	7405.0	6035.0	1530.0			Africa	Sa-Su	04/27/94
0630	0700	Vatican State	Vatican Radio	15090.0	11625.0	9695.0								c&s&wAl		09/12/93
0632	0642	Romania	R Romania Int'l	11840.0	11775.0	9690.0	9665.0	7105.0						Eu	news	11/21/93
0640	0820	Monaco	Trans World Radio	7385.0										UK	Sa-0835ISu-0845	03/21/94
0645	0700	Finland	R Finland	11755.0	9560.0	6120.0	963.0	558.0						Eu	Su -0755	04/12/94
0645	0715	Romania	R Romania Int'l	17805.0	17720.0	15335.0	15250.0							Pac		11/24/93
0700	0727	Czech	R Prague	21705.0	17535.0	15605.0								eAl/As/Pac		03/27/94
0700	0730	Australia	R Australia	17795.0	15240.0	13605.0	11910.0	9860.0	9580.0					As/Pac/PapNG		03/09/94
0700	0730	Georgia	R Georgia	11910.0										Eu		04/16/94
0700	0730	Switzerland	Int'l Red Cross	6165.0										Eu	last Su/mo	03/28/94
0700	0730	United Kingdom	BBC World Service	15575.0	15400.0	15070.0	15070.0	12095.0	12095.0	12095.0	9410.0	9410.0		Eu	See also Screen 41	04/20/94
0700	0730	United Kingdom	BBC World Service	7325.0	6195.0	6195.0	6195.0	6180.0	648.0					Eu		04/20/94
0700	0750	North Korea	R Pyongyang	17765.0	15340.0									seAs		07/15/90
0700	0800	Australia	R Australia	21725.0	17750.0	17695.0	15240.0	11880.0	11720.0					As/Pac/PapNG		03/09/94
0700	0800	Japan	R Japan	21610.0	17810.0	15410.0	11740.0							GOS:As		09/03/93
0700	0800	Japan	R Japan	15270.0										GOS:Oc		03/20/94
0700	0800	Japan	R Japan	7230.0	5975.0									GOS:Eu		03/20/94
0700	0800	Japan	R Japan	15380.0										GOS:ME		03/20/94
0700	0800	Slovakia	AWR Eu	7180.0										cEu		03/31/94
0700	0800	Taiwan	V of Free China	5950.0										NAM		08/05/89
0700	0800	USA	WEWN	9430.0	9370.0									wAl/UK	tx#4-"Pgm D"tx#3-"Pgm C"	04/18/93
0700	0800	USA	WEWN	9430.0										wAl	"Program D"	09/11/93
0700	0830	Ecuador	HCJB	21455.0	17490.0	11835.0	9600.0							Eu		04/14/94
0700	1130	Ecuador	HCJB	21455.0	17490.0	11925.0	9745.0							sPac		04/14/94

SCHEDULES BY SUNDSTROM

Xmsn	Show	Country	Station	Fq.	Fq.	Fq.	Target	Notes	Uptime							
Start	Start			1	2	3	4	5	6	7	8	9	10			
0730	0800	Austria	ORF	13730.0	6155.0									Eu		03/25/94
0730	0800	Austria	ORF	17870.0	15410.0									ME		03/25/94
0730	0800	United Kingdom	BBC ALT AFRICA	17885.0	15400.0	15400.0	11940.0	9600.0						AI	Sa-Su	04/17/94
0730	0800	United Kingdom	BBC World Service	15070.0	15070.0	12095.0	12095.0	12095.0	9410.0	9410.0	7325.0	648.0		Eu		04/20/94
0730	0815	United Kingdom	BBC World Service	9640.0	9640.0									CAm/SAm		04/13/94
0730	0827	Netherlands	R Netherlands	9720.0	9630.0									Pacific		03/17/94
0730	0900	Australia	R Australia	11910.0	9860.0	9710.0	9580.0	6080.0	6020.0					As/Pac/PapNG		03/09/94
0735	0805	Swaziland	Trans World Radio	9650.0	6070.0									Cape/sAI	Mo-Fr	04/14/94
0755	1425	South Africa	Radio Oranje	7270.0										nwCape/Namibia		03/22/94
0759	1206	New Zealand	R New Zealand Int'l	6100.0										Pacific		04/22/94
0800	0815	United Kingdom	BBC World Service	12095.0	12095.0	12095.0	7325.0							Eu		04/20/94
0800	0815	United Kingdom	BBC World Service	17640.0										nEu	Mo-Sa	04/16/94
0800	0830	Finland	R Finland	17800.0	15445.0									eAs/Aus	Su -0823	04/20/94
0800	0830	Norway	R Norway Int'l	17740.0	15175.0									FE/NZ	Su only	09/22/93
0800	0830	South Korea	R Korea	15575.0										ME/AI		10/03/93
0800	0850	North Korea	R Pyongyang	15230.0	15180.0									seAs		07/28/90
0800	0900	Australia	R Australia	21725.0	17750.0	17695.0	15240.0	11720.0	7240.0					As/Pac/PapNG		03/09/94
0800	0900	N Mariana Is	KHBI/2	13615.0										NZ		09/12/93
0800	0900	Pakistan	R Pakistan	21520.0	17900.0									wEu		12/13/93
0800	0900	South Korea	R Korea	13670.0	7550.0									Eu		10/03/93
0800	0900	USA	KNLS	9615.0										eCIS/China		04/09/94
0800	0900	USA	WEWN	9975.0										Brazil	"Program B"	01/04/94
0800	0915	Guam	KTWR	15200.0										FE		03/30/94
0800	1000	USA	WEWN	9350.0										NAm/Aus/NZ	"Program A"	09/11/93
0800	1000	USA	WHRI	7355.0	7315.0									Carib/eNAM		03/25/93
0800	1600	USA	KWHR	9930.0										China		03/08/94
0815	0900	United Kingdom	BBC World Service	17640.0	17640.0	15070.0	15070.0	15070.0	15070.0	15070.0	15070.0			Eu	See also Screen 41	04/20/94
0815	0900	United Kingdom	BBC World Service	12095.0	12095.0	12095.0	7325.0							Eu		04/20/94
0830	0900	Austria	ORF	13730.0	6155.0									Eu		09/25/93
0830	0900	Austria	ORF	17870.0	15450.0									Aus		04/25/94
0830	0900	Slovakia	R Slovakia Int'l	21705.0	17535.0	15605.0	11990.0							Aus		10/04/93
0830	0927	Netherlands	R Netherlands	9720.0										Pacific		03/17/94
0830	0927	Netherlands	R Netherlands	9895.0	5955.0									Eu		03/08/94
0845	0900	Armenia	R Yerevan	17770.0	15170.0									Eu	Su	04/09/94
0855	1000	Guam	KTWR	11805.0										sPac		03/30/94
0900	0925	Belgium	R Vlaanderen Int'l	17590.0	13690.0	6035.0								AI/Eu	M-Sa	03/19/94
0900	0930	Palau	KHBN	17630.0										As	Mo-Fr	03/08/94
0900	0930	Switzerland	Swiss R Int'l	21820.0	13685.0	9885.0								AusNZ		09/27/93
0900	0930	United Kingdom	BBC World Service	17705.0	17640.0	15070.0	15070.0	15070.0	15070.0	15070.0	15070.0			Eu	See also Screen 41	04/20/94
0900	0930	United Kingdom	BBC World Service	12095.0	12095.0	12095.0	7325.0							Eu	7325. -0915	04/20/94
0900	0950	Germany	R Deutsche Welle	21600.0	17800.0	15410.0	9565.0							e&c&sAI		05/22/93

SCHEDULES BY SUNDSTROM

01-5

Xmss Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
0900	0950	Germany	R Deutsche Welle	21680.0	17780.0	17715.0	15435.0	12055.0	11715.0	6160.0				As/Pac		03/08/94
0900	0955	China	China R Int'l	17710.0	15440.0	11755.0								sPac		08/26/91
0900	1000	Australia	R Australia	21725.0	15170.0	13605.0	9580.0	9510.0	6080.0					As/Pac/PapNG		03/09/94
0900	1000	Japan	R Japan	15190.0	11815.0	9750.0	9610.0							GOS:As		03/21/94
0900	1000	Japan	R Japan	15270.0										Reg Svc:Oc		03/20/94
0900	1000	N Mariana Is	KHBU/1	17555.0										Japan/Kor/CIS		09/12/93
0900	1000	N Mariana Is	KHBU/2	13615.0										Aus		09/12/93
0900	1000	Russia	R Moscow Int'l	15355.0	15105.0	12010.0	11705.0							World Service		04/01/94
0900	1000	USA	WEWN	9370.0										UK	"Program C"	09/11/93
0900	1000	USA	WSHB/1	9840.0										Aus/NZ		09/12/93
0900	1000	USA	WSHB/2	7395.0										cSam		10/18/93
0910	0940	Mongolia	R Ulan Bator	12015.0	11850.0									Oc		10/09/92
0930	1000	South Korea	R Korea	13670.0										seAs(7)		04/24/94
0930	1000	United Kingdom	BBC World Service	17705.0	17640.0	17640.0	15070.0	15070.0	15070.0	15070.0				Eu	See also Screen 41	04/20/94
0930	1000	United Kingdom	BBC World Service	12095.0	12095.0	12095.0	9410.0	9410.0	648.0					Eu		04/20/94
0930	1027	Netherlands	R Netherlands	15470.0	12065.0	9720.0	9715.0							FE & Pacific		03/17/94
0930	1027	Netherlands	R Netherlands	9895.0	5955.0									Eu		03/08/94
0930	1100	Philippines	FEBC	11690.0										China/seAs		10/08/93
0940	0950	Greece	V of Greece	17525.0	15650.0									Aus	News/Eng	04/09/94
1000	1025	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
1000	1030	Israel	Kol Israel	17575.0	15640.0									wEu		03/27/94
1000	1030	Israel	Kol Israel	15650.0										Aus/As		03/27/94
1000	1030	Norway	R Norway Int'l	21705.0	17840.0									wAI/Eu	Su only	09/22/93
1000	1030	Switzerland	Swiss R Int'l	9535.0	6165.0									Eu		04/23/94
1000	1055	China	China R Int'l	17710.0	15440.0	11755.0								sPac		08/26/91
1000	1100	Australia	R Australia	21725.0	15170.0	9580.0								As/Pac/PapNG		03/09/94
1000	1100	India	AIR	21735.0	17895.0	17387.0	15050.0							GOS/neAs/AusNZ		04/23/93
1000	1100	N Mariana Is	KHBU/1	13625.0										Indon		09/12/93
1000	1100	N Mariana Is	KHBU/2	17555.0										China		04/20/94
1000	1100	Nigeria	V of Nigeria	7255.0										wAI		07/27/93
1000	1100	Russia	R Moscow Int'l	21785.0										World Service	13m	03/31/94
1000	1100	Russia	R Moscow Int'l	17815.0	17780.0	17675.0	17675.0	17645.0	17580.0					World Service	17m	03/31/94
1000	1100	Russia	R Moscow Int'l	15485.0	15470.0	15455.0	15440.0	15355.0	15320.0	15105.0				World Service	19m	03/31/94
1000	1100	Russia	R Moscow Int'l	12055.0	12020.0	12010.0	11805.0	11705.0						World Service	25m	03/31/94
1000	1100	South Africa	Channel Africa	17810.0										eAI		03/22/94
1000	1100	USA	VQA	15120.0	11915.0	9590.0	7405.0	930.0						Caribbean		04/27/94
1000	1100	USA	VQA	15425.0	11720.0	5985.0								Pac		04/27/94
1000	1100	USA	WSHB/2	7395.0										sAm		10/18/93
1000	1100	USA	WYFR	5950.0										NAm	Network M-Sa	03/26/91
1000	1130	United Kingdom	BBC World Service	17705.0	17705.0	17640.0	17640.0	17640.0	15070.0	15070.0	15070.0	15070.0	15070.0	Eu	See also Screen 41	04/20/94
1000	1130	United Kingdom	BBC World Service	12095.0	12095.0	12095.0	12095.0	12095.0	9410.0	9410.0	9410.0	9410.0	648.0	Eu		04/20/94

SCHEDULES BY SUNDSTROM

Xmsn	Show	Country	Station	Fq.	Fq.	Fq.	Fq.	Target	Notes	Upzone							
Start	Start			1	2	3	4	5	6	7	8	9	10				
1000	1300	USA	WHRI	9850.0	7315.0										Carib/eNAM	seperate pgm	06/16/93
1000	1300	USA	WSHB/1	7465.0	7465.0										eNAM/Carib		04/20/94
1000	1830	Liberia	ELRL	6090.0											Regional		04/20/94
1000	2400	USA	WWCR	15685.0											Eu/ME/nAI	tx #1	03/25/94
1020	1030	Vatican State	Vatican Radio	21655.0	15210.0	11740.0	6245.0	1530.0							neAI/ME/Eu	Mo-Sa	03/22/94
1030	1055	United Arab	R Dubai	21605.0	15345.0	15320.0	13675.0								Eu/nAI		05/06/91
1030	1057	Czech	R Prague	11990.0	9505.0	7345.0									Eu		03/27/94
1030	1059	South Korea	R Korea	11715.0											eNAM		03/18/94
1030	1100	Austria	ORF	17870.0	15450.0										Aus		03/25/94
1030	1127	Netherlands	R Netherlands	15470.0	12065.0										FE		03/08/94
1030	1130	Sri Lanka	SLBC	11835.0											Aus		01/10/93
1100	1120	Pakistan	R Pakistan	21520.0	17900.0										wEu	Slow-speed news	12/23/93
1100	1130	Switzerland	Swiss R Int'l	17515.0	15505.0	13635.0									FE/seAs		04/22/94
1100	1130	Switzerland	Swiss R Int'l	9535.0	6165.0										Eu		04/22/94
1100	1130	United Kingdom	BBC World Service	9515.0	5965.0										NAM		04/13/94
1100	1130	United Kingdom	BBC World Service	17790.0	6195.0	930.0									CAM/NAM		04/19/94
1100	1150	Germany	R Deutsche Welle	21600.0	17860.0	17800.0	17765.0	15410.0	15370.0						wAI		03/08/94
1100	1150	North Korea	R Pyongyang	11335.0	9977.0	6576.0									Am		12/02/90
1100	1200	Australia	R Australia	15565.0	15170.0	13605.0	9860.0	9580.0	9510.0						As/Pac/PapNG		03/09/94
1100	1200	Japan	R Japan	15295.0	9610.0										GOS:As		03/21/94
1100	1200	Japan	R Japan	6120.0											GOS:NAM		09/03/93
1100	1200	N Mariana Is	KHBI/2	9425.0											Aus		04/20/94
1100	1200	Russia	R Moscow Int'l	21785.0											World Service	13m	03/29/94
1100	1200	Russia	R Moscow Int'l	17815.0	17780.0	17675.0	17670.0								World Service	17m	03/29/94
1100	1200	Russia	R Moscow Int'l	15590.0	15525.0	15485.0	15470.0	15455.0	15440.0	15420.0					World Service	19m > 15.4 MHz	03/29/94
1100	1200	Russia	R Moscow Int'l	15395.0	15355.0	15320.0	15305.0	15280.0	15125.0	15105.0					World Service	19m < 15.4 MHz	03/31/94
1100	1200	Russia	R Moscow Int'l	12055.0	12020.0	11985.0	11705.0								World Service	25m	03/31/94
1100	1200	South Africa	Channel Africa	9730.0											sAI		03/22/94
1100	1200	USA	VOA	15120.0	11915.0	9590.0	7405.0								Caribbean		04/27/94
1100	1200	USA	VOA	15425.0	15425.0	15160.0	11720.0	9760.0	9760.0	6110.0	5985.0				eAs/seAs/Pac		04/27/94
1100	1200	USA	WSHB/2	7395.0											CAM/SAm		10/18/93
1100	1200	USA	WYFR	11830.0	5950.0										NAM	Network M-Sa	03/08/94
1100	1300	Costa Rica	AWR LAm	13750.0	9725.0	5030.0									LAM		04/08/94
1100	1300	Singapore	R Singapore Int'l	9530.0											Regional Svc		02/05/94
1130	1155	Finland	R Finland	15400.0	11900.0										NAM	Mo-Sa	03/25/94
1130	1200	Austria	ORF	13730.0	6155.0										Eu		03/25/94
1130	1200	Austria	ORF	13730.0											NAM		03/25/94
1130	1200	Sweden	R Sweden	15240.0	15120.0	13775.0									As/Pac		03/20/94
1130	1200	United Kingdom	BBC World Service	17705.0	17640.0	17640.0	15070.0	15070.0	15070.0	12095.0	12095.0				Eu	See also Scr 41 @1130	04/20/94
1130	1200	United Kingdom	BBC World Service	9410.0	9410.0	648.0									Eu		04/20/94
1130	1200	United Kingdom	BBC World Service	9515.0	5965.0										NAM		04/13/94

SCHEDULES BY SUNDSTROM

Xmsa Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1130	1200	United Kingdom	BBC World Service	6195.0	930.0									CAm/NAm		04/19/94
1130	1227	Netherlands	R Netherlands	9650.0	5955.0									Eu		09/17/93
1130	1230	Thailand	R Thailand	11905.0	9655.0	4830.0								seAs		07/29/89
1130	1600	Ecuador	HCJB	21455.0	17890.0	17490.0	15115.0	11925.0						NAm/SAm	#A -1430	04/14/94
1140	1155	Venezuela	R Nacional de Venezuela	9540.0										SAm	news/Eng M-Sa	06/06/91
1200	0200	USA	WWCR	13845.0										Eu/ME/nAl	bx #2	03/25/94
1200	1225	Uzbekistan	R Tashkent	17815.0	15295.0	9540.0	5945.0							As	not sure abt #4	04/09/94
1200	1229	Canada	R Canada Int'l	17820.0	11855.0	9635.0								Carib/NAm	Mo-Fr	03/18/94
1200	1230	Mongolia	R Ulan Bator	12015.0	11850.0									FarE	Mo,Th,Sa	10/09/92
1200	1230	Norway	R Norway Int'l	17860.0										Aus/As	Su only	03/24/94
1200	1230	USA	VDA	15425.0	15425.0	15160.0	11715.0	9760.0	9760.0	6110.0	1147.5			eAs/seAs/Pac		04/27/94
1200	1255	China	China R Int'l	9655.0										eNAm		11/14/93
1200	1255	China	China R Int'l	11660.0	9715.0									seAs		06/18/93
1200	1255	China	China R Int'l	15440.0	11795.0									sPac		06/18/93
1200	1255	Poland	Polish Radio Warsaw	11815.0	9525.0	7270.0	7145.0	6135.0						Eu		03/18/94
1200	1300	Australia	R Australia	15565.0	11800.0	7240.0	6080.0	6020.0	5995.0					As/Pac/PapNG		03/09/94
1200	1300	Bulgaria	R Bulgaria	17625.0										Aus		03/23/94
1200	1300	France	R France Int'l	17575.0	15530.0									NAm/CAm/SAm		03/27/94
1200	1300	France	R France Int'l	15425.0	15180.0	11670.0	9805.0							eEu		11/06/93
1200	1300	Jordan	R Jordan	9560.0										wEu/NAm		10/01/93
1200	1300	N Mariana Is	KHBI/1	13625.0										seAs		09/12/93
1200	1300	N Mariana Is	KHBI/2	9425.0										Aus		09/12/93
1200	1300	Russia	R Moscow Int'l	21785.0	21630.0									World Service	13m	03/27/94
1200	1300	Russia	R Moscow Int'l	17815.0	17780.0	17675.0	17670.0	17645.0	17590.0	17560.0				World Service	17m	03/27/94
1200	1300	Russia	R Moscow Int'l	15525.0	15485.0	15470.0	15455.0	15440.0						World Service	19m > 15.4 MHz	03/27/94
1200	1300	Russia	R Moscow Int'l	15395.0	15355.0	15320.0	15305.0	15290.0	15280.0	15170.0	15125.0	15105.0		World Service	19m < 15.4 MHz	03/30/94
1200	1300	Russia	R Moscow Int'l	12055.0	11985.0	11935.0	11705.0							World Service	25m	03/27/94
1200	1300	Russia	R Moscow Int'l	9540.0										World Service	31m	03/30/94
1200	1300	South Korea	R Korea	7180.0										GOS		12/24/93
1200	1300	United Kingdom	BBC World Service	17705.0	17640.0	17640.0	15070.0	15070.0	15070.0	12095.0	12095.0			Eu	See also Scr 41	04/20/94
1200	1300	United Kingdom	BBC World Service	9410.0	9410.0	648.0								Eu		04/20/94
1200	1300	USA	WSHB/2	9455.0										Mex		10/18/93
1200	1300	USA	WYFR	17750.0	11830.0	6015.0	5950.0							NAm	#1&2&4 Network M-Sa	03/08/94
1200	1320	Brazil	R Nacional de Brasil	15445.0										NAm/CAm		06/06/92
1200	1400	Palau	KHBN	9965.0										As	Sa -1430	03/08/94
1200	1400	United Kingdom	BBC World Service	15220.0	15220.0	6195.0								CAm/NAm/SAm		04/19/94
1200	1715	United Kingdom	BBC World Service	9515.0										nAm		04/13/94
1207	1649	New Zealand	R New Zealand Int'l	6100.0										Pac	occasional use	04/22/94
1215	1330	Egypt	R Cairo	17595.0										sAs		08/16/90
1230	1240	India	AIR	4860.0										Feeder Svc	news	01/28/93
1230	1255	Belgium	R Vlaanderen Int'l	17775.0	15545.0									seAs/NAm	Su	03/19/94

SCHEDULES BY SUNDSTROM

Trans Start	Comm Start	Country	Station	rq. 1	rq. 2	rq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1230	1255	Vietnam	V of Vietnam	15008.8	9839.9									As		02/25/92
1230	1259	Canada	R Canada Int'l	15195.0	9660.0									As		03/18/94
1230	1300	Bangladesh	R Bangladesh	13615.0										Eu	Announces 15220.	09/21/93
1230	1300	Finland	R Finland	15400.0	11900.0									NAM	Mo-Sa	03/25/94
1230	1300	Sweden	R Sweden	17870.0	15240.0									NAM		03/16/94
1230	1300	Switzerland	Swiss R Int'l	9535.0	6165.0									Eu		04/23/94
1230	1300	Turkey	V of Turkey	9675.0										swAs		03/19/94
1230	1300	USA	VOA	15425.0	15425.0	15160.0	11805.0	11715.0	9760.0	9760.0	6110.0			eAs/seAs/Pac		04/27/94
1230	1327	Netherlands	R Netherlands	9650.0	5955.0									Eu		09/17/93
1300	1325	Belgium	R Vlaanderen Int'l	17775.0	15545.0									seAs/NAM	M-Sa	03/19/94
1300	1329	South Korea	R Korea	13670.0	9570.0									seAs		09/05/93
1300	1330	Israel	Kol Israel	15640.0										wEu/NAM		03/27/94
1300	1330	Israel	Kol Israel	15650.0										Aus/As		03/27/94
1300	1330	Norway	R Norway Int'l	9590.0										Eu	Su only	03/24/94
1300	1330	Switzerland	Int'l Red Cross	6165.0										Eu	last Su/mo	03/28/94
1300	1330	Switzerland	Swiss R Int'l	15505.0	13635.0	11690.0	7480.0							s&seAs		09/27/93
1300	1330	USA	VOA	15425.0	15425.0	15160.0	11805.0	11715.0	9760.0	9760.0	6110.0			eAs/seAs/Pac		04/27/94
1300	1350	North Korea	R Pyongyang	15230.0	13760.0	9640.0								seAs		03/30/93
1300	1350	North Korea	R Pyongyang	11730.0	9345.0									Eu		03/30/93
1300	1350	North Korea	R Pyongyang	15230.0	13760.0									Am		03/30/94
1300	1355	China	China R Int'l	11660.0	9715.0									seAs		06/18/93
1300	1355	China	China R Int'l	15440.0	11795.0									sPac		11/14/93
1300	1400	Ethiopia	V of Ethiopia	9560.0	7165.0									wAf		09/13/91
1300	1400	N Mariana Is	KHBI/1	13625.0										Indon		09/12/93
1300	1400	N Mariana Is	KHBI/2	13625.0										India		09/12/93
1300	1400	Romania	R Romania Int'l	17775.0	17720.0	15365.0	11940.0							Eu		11/21/93
1300	1400	Russia	R Moscow Int'l	21785.0	21630.0									World Service	13m	03/27/94
1300	1400	Russia	R Moscow Int'l	15485.0	15470.0	15455.0	15440.0	15355.0	15320.0	15290.0	15125.0	15105.0		World Service	19m	03/30/94
1300	1400	Russia	R Moscow Int'l	12025.0	11985.0	11935.0								World Service	25m	03/30/94
1300	1400	Russia	R Moscow Int'l	9540.0										World Service	31m	03/27/94
1300	1400	United Kingdom	BBC World Service	17705.0	17640.0	17640.0	15070.0	15070.0	15070.0	12095.0	12095.0			Eu	See also Scr 41	04/20/94
1300	1400	United Kingdom	BBC World Service	9410.0	9410.0	648.0								Eu		04/20/94
1300	1400	USA	KNLS	7355.0										eAs		04/09/94
1300	1400	USA	WSHB/1	7465.0	7465.0									cNAM/Mex		04/20/94
1300	1400	USA	WYFR	17750.0	13695.0	11830.0	6015.0	5950.0						NAM	#1&3&5 Network M-Sa	03/08/94
1300	1430	Australia	R Australia	13755.0	11800.0	7240.0	5995.0							As/Pac/PapNG		03/09/94
1300	1500	USA	WEWN	9350.0										NAM	"Program A"	09/11/93
1300	1500	USA	WEWN	17535.0										eAf	"Program B"	09/11/93
1300	1559	Canada	R Canada Int'l	17820.0	11955.0									Carib/NAM	Su	03/18/94
1300	1600	Philippines	FEBC	11995.0										seAs/India		11/28/91
1300	1600	USA	KJES	11715.0										wCanada	irregular	10/19/92

SCHEDULES BY SUNDSTROM

Xmsn	Show	Country	Station	Fq.	Fq.	Target	Notes	Update							
Start	Start			1	2	3	4	5	6	7	8	9	10		
1300	1630	Lebanon	Wings of Hope	11530.0									ME	Mo-Sa (Su -15)	11/24/93
1300	1700	USA	WHRI	15105.0	9465.0								Carib/eNA	seperate pgm 16-17	06/16/93
1302	1502	USA	WYFR	11550.0									India		11/03/92
1330	1355	United Arab	R Dubai	21605.0	15395.0	15320.0	13675.0						Eu/nAl		07/28/93
1330	1355	Uzbekistan	R Tashkent	17815.0	15295.0	9540.0	5945.0						As		04/09/94
1330	1355	Vietnam	V of Vietnam	15008.8	9839.9								eAS		11/07/89
1330	1357	Canada	R Canada Int'l	11795.0	9535.0								eAS		03/18/94
1330	1359	Canada	R Canada Int'l	21455.0	17895.0	17820.0	15325.0	15315.0					Eu/ME/Al		03/18/94
1330	1400	Austria	ORF	15450.0									As		03/25/94
1330	1400	Finland	R Finland	15400.0	11900.0								NAm	Sa -1355	03/25/94
1330	1400	Sweden	R Sweden	17870.0	15240.0								NAm		01/05/94
1330	1400	USA	VQA	15425.0	15425.0	15160.0	9760.0	9760.0	6110.0				eAs/seAs/Pac		04/27/94
1330	1427	Netherlands	R Netherlands	15150.0	13700.0	9890.0							sAS		03/08/94
1330	1500	India	AIR	15120.0	11760.0								GOS/seAS		11/10/92
1335	1345	Greece	V of Greece	17535.0	15630.0								NAm	News/Eng	04/09/94
1345	1405	Vatican State	Vatican Radio	17525.0	15585.0	11640.0							As/AusNZ		03/27/94
1400	1430	USA	VQA	15425.0	15425.0	15160.0	9760.0	9760.0	6110.0	1147.5			eAs/seAs/Pac		04/27/94
1400	1430	USA	VQA	15395.0	15255.0	9645.0	7125.0	6110.0					sAS		04/27/94
1400	1455	China	China R Int'l	7405.0									wNA		11/14/93
1400	1455	China	China R Int'l	15165.0	11815.0								sAS		06/18/93
1400	1500	Bulgaria	R Bulgaria	17705.0	15460.0								As		03/23/94
1400	1500	France	R France Int'l	17695.0									Eu/ME		03/27/94
1400	1500	France	R France Int'l	12030.0									As/Oc/India		01/18/94
1400	1500	Japan	R Japan	11915.0	11840.0	9750.0							GOS:As		03/20/94
1400	1500	Japan	R Japan	11705.0	9535.0								GOS:NAm		10/28/93
1400	1500	Morocco	R-TV Morocco	17595.0										M-F	09/02/92
1400	1500	N Mariana Is	KHBI/1	9355.0									India/China		12/04/93
1400	1500	Russia	R Moscow Int'l	21785.0	21630.0								World Service	13m	03/27/94
1400	1500	Russia	R Moscow Int'l	15580.0	15485.0	15455.0	15355.0	15320.0	15290.0	15125.0	15105.0		World Service	19m	03/27/94
1400	1500	Slovakia	AWR Eu	13595.0									India		03/31/94
1400	1500	South Korea	R Korea	5975.0									GOS		03/29/94
1400	1500	United Kingdom	BBC World Service	17705.0	17640.0	17640.0	15070.0	15070.0	15070.0	12095.0	12095.0		Eu	See also Scr 41	04/20/94
1400	1500	United Kingdom	BBC World Service	9410.0	9410.0	648.0							Eu		04/20/94
1400	1500	USA	VQA	15255.0	1548.0								ME		04/27/94
1400	1500	USA	WSHB/1	11900.0									wNA		04/20/94
1400	1500	USA	WYFR	17750.0	11830.0	6015.0							NAm	#1&2 Network M-Sa	03/08/94
1400	1600	Malta	V of the Mediterranean	11925.0									Eu/ME		02/16/94
1400	1615	United Kingdom	BBC World Service	17840.0	17840.0								SA		04/17/94
1430	1455	Romania	R Romania Int'l	17720.0	15335.0	11810.0							As		03/21/94
1430	1500	Austria	ORF	13730.0	9670.0	6155.0							Eu		03/25/94
1430	1500	Austria	ORF	9870.0									Al		03/25/94

SCHEDULES BY SUNDBROM

Line Start	Show Start	Country	Station	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	F ₇	F ₈	F ₉	F ₁₀	Target	Notes	Update
1430	1500	Austria	ORF	15450.0										As		03/25/94
1430	1500	USA	VQA	15425.0	15425.0	15160.0	9760.0	9760.0	7215.0	6110.0	1147.5			eAs/seAs/Pac		04/27/94
1430	1500	USA	VOA	15395.0	15255.0	9645.0	7125.0	7125.0	6110.0					sAS		04/27/94
1430	1527	Netherlands	R Netherlands	15150.0	13700.0	9890.0								sAS		03/08/94
1430	1630	Australia	R Australia	11800.0	11695.0	11660.0	9770.0	9710.0	7260.0	7240.0	6080.0	6060.0	5995.0	As/Pac/PapNG		03/09/94
1430	2200	South Africa	Radio Oranje	3230.0										nwCape/Namibia		03/22/94
1440	1455	Venezuela	R Nacional de Venezuela	9540.0										SAM	news/Eng M-Sa	06/06/91
1445	1515	Mongolia	R Ulan Bator	13780.0	7260.0									sAS		10/09/92
1450	1515	India	AIR	9950.0	7412.0									Home Svc	news/features	01/12/91
1455	1700	Tajikistan	R Tajikistan	7245.0	1143.0	648.0								As		04/24/94
1500	1515	United Kingdom	BBC ALT AFRICA	21490.0	17790.0	15420.0	11860.0							AI	Sa-Su	04/17/94
1500	1515	United Kingdom	BBC World Service	9410.0	9410.0	648.0								Eu		04/20/94
1500	1527	Czech	R Prague	13580.0	7345.0	5930.0								Eu/ME/AI		03/27/94
1500	1530	Palau	KHBN	9830.0										As		03/08/94
1500	1530	Switzerland	Swiss R Int'l	15505.0	13635.0	11960.0								sAS		04/23/94
1500	1530	USA	VQA	15395.0	15255.0	9760.0	9645.0	7215.0	7125.0	6110.0				sAS		04/27/94
1500	1550	Germany	R Deutsche Welle	21600.0	9735.0	7185.0	7185.0							s&c&eAI/ME		03/08/94
1500	1550	North Korea	R Pyongyang	9977.0	9640.0									ME/AI		09/19/92
1500	1550	North Korea	R Pyongyang	13785.0	9325.0									Eu		09/19/92
1500	1555	China	China R Int'l	7405.0										wNAm		11/14/93
1500	1555	China	China R Int'l	15165.0	11815.0									sAS		06/18/93
1500	1555	Poland	Polish Radio Warsaw	9525.0	7285.0									Eu		03/18/94
1500	1555	Seychelles	FEBA	11710.0										sAS		04/01/94
1500	1600	Algeria	R Algiers Int'l	17745.0	15205.0	15160.0	9535.0	1422.0						Eu/ME/AI		04/13/94
1500	1600	Japan	R Japan	11915.0	9750.0									GOS:As		03/20/94
1500	1600	Japan	R Japan	9535.0										GOS:NAm		10/28/93
1500	1600	Japan	R Japan	15355.0										GOS:SAI		09/03/93
1500	1600	N Mariana Is	KHBU/1	9355.0										India/China		12/04/93
1500	1600	Russia	R Moscow Int'l	15320.0	15290.0	15105.0								World Service	19m	03/27/94
1500	1600	Seychelles	FEBA	15330.0	9810.0									As	Mo-Sa (Int'l Pgm)	09/25/93
1500	1600	United Kingdom	BBC World Service	17705.0	15070.0	15070.0	15070.0	12095.0	12095.0					Eu	See also Scr. 41	04/20/94
1500	1600	USA	VQA	15255.0	15205.0	9700.0	1548.0	1260.0						ME/nAI/Eu		04/27/94
1500	1600	USA	WEWN	21710.0										eAI	*Program B*	09/11/93
1500	1600	USA	WEWN	17510.0										ME	*Program C*	09/11/93
1500	1615	Guam	KTWR	12025.0										sAS	We-Sa -1630iSu -1700	03/08/94
1500	1700	Costa Rica	AWR LAm	13750.0										LAm		04/08/94
1500	1700	Nigeria	V of Nigeria	7255.0										wAI		07/27/93
1500	1700	USA	WYFR	17750.0	11830.0	11705.0								NAm	#1&2 Network M-Sa	03/08/94
1500	1715	United Kingdom	BBC World Service	15260.0										NAm		04/14/94
1500	1730	Jordan	R Jordan	9560.0										wEu/NAm		10/01/93
1500	1800	South Africa	Channel Africa	11770.0	4945.0									e&w&cAI/SAI		03/25/94

SCHEDULES BY SUNDBLUM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1500	2330	USA	KCBI	15725.0										Carib		02/06/94
1515	1530	United Kingdom	BBC ALT AFRICA	21490.0	17790.0	15420.0	11860.0							AI		04/17/94
1515	1600	United Kingdom	BBC World Service	9410.0	9410.0									Eu		04/20/94
1530	1555	Albania	R Tirana	9760.0	7155.0									Eu		10/01/93
1530	1600	Austria	ORF	11780.0										As		03/25/94
1530	1600	India	AIR	10330.0	9950.0	7412.0								Home Svc	news/features	07/11/92
1530	1600	Portugal	R Portugal	21515.0										ME/FE	Mo-Fr	04/01/94
1530	1600	USA	VOA	15395.0	15255.0	9760.0	9645.0	7215.0	7125.0	6110.0	1575.0			sAs		04/27/94
1530	1627	Netherlands	R Netherlands	15150.0	13700.0	9890.0								sAs		03/08/94
1530	1627	Netherlands	R Netherlands	5955.0										Eu		03/17/94
1540	1600	Vatican State	Vatican Radio	15090.0	11640.0									As/AusNZ		11/26/93
1600	1615	United Kingdom	BBC World Service	17705.0	648.0									Eu		04/16/94
1600	1620	Vatican State	Vatican Radio	15090.0	11640.0									AI	SaiMass	03/22/94
1600	1625	Vietnam	V of Vietnam	15008.8	9839.9									AI		03/20/93
1600	1630	Pakistan	R Pakistan	17660.0	15675.0	15555.0	13590.0	11570.0	9470.0					e&seAI/ME	Slow-speed news 1615	03/19/94
1600	1630	USA	VOA	15445.0	15410.0	15225.0	13710.0	12040.0	1530.0					Africa	Sa-Su	04/27/94
1600	1630	USA	VOA	15255.0	15205.0	9700.0	1548.0	1197.0	792.0					ME/nAI/Eu		04/27/94
1600	1640	United Arab	R Dubai	21605.0	15395.0	15320.0	13675.0							Eu/nAI	#1 annod as 11795	09/06/93
1600	1650	Germany	R Deutsche Welle	21680.0	17810.0	15595.0	9875.0	7225.0	6170.0	1548.0				sAs		03/08/94
1600	1655	China	China R Int'l	15130.0	15110.0	11575.0								e&sAIr		06/18/93
1600	1700	France	R France Int'l	6175.0										Eu		11/06/93
1600	1700	France	R France Int'l	17850.0	17620.0	15530.0	12015.0	11700.0	11615.0					AI		04/01/94
1600	1700	Guam	KSDA	7455.0										India		10/14/93
1600	1700	N Mariana Is	KHBI/2	9355.0										sAI		04/20/94
1600	1700	Russia	R Moscow Int'l	15520.0	15320.0	15290.0	15180.0	15105.0	11630.0					World Service		03/30/94
1600	1700	South Korea	R Korea	5975.0										GOS		10/03/93
1600	1700	Swaziland	Trans World Radio	9500.0										eAI		09/02/93
1600	1700	United Kingdom	BBC World Service	15070.0	15070.0	15070.0	12095.0	12095.0						Eu		04/20/94
1600	1700	USA	VOA	15395.0	15255.0	9760.0	9645.0	7125.0	6110.0					sAs		04/27/94
1600	1700	USA	WEWN	17510.0										UK	"Program C"	09/11/93
1600	1700	USA	WYFR	21615.0	21525.0	15355.0								Eu/Al		10/08/93
1600	1800	Lebanon	King of Hope	6280.0										ME	Su	05/29/93
1600	1800	USA	KWHR	7425.0										Pac		12/10/93
1600	1915	United Kingdom	BBC World Service	9410.0	9410.0	6195.0	6195.0	6195.0						Eu		04/20/94
1600	2200	USA	WEWN	13615.0										NAm	"Program A"	09/11/93
1600	2300	USA	WRNO	15420.0										NAm/Cam/Eu		09/25/92
1600	2400	USA	KTBN	15590.0										eNAM		09/25/92
1600	2400	USA	WINB	15715.0										Eu		12/30/93
1615	1630	Vatican State	Vatican Radio	9645.0	7250.0	6245.0								ME/eAI/wEu		03/22/94
1615	1645	Sweden	R Sweden	6065.0	1197.0									Eu		03/16/94
1630	1657	Canada	R Canada Int'l	9550.0	7150.0									India		03/18/94

SCHEDULES BY SUNDSTROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1630	1700	USA	VOA	15445.0	15410.0	15225.0	13710.0	12040.0	1530.0					Africa		04/27/94
1630	1700	USA	VOA	17735.0	15255.0	15245.0	15205.0	9700.0	6040.0	1548.0	1197.0	792.0		ME/nAI/Eu		04/27/94
1630	1800	Australia	R Australia	11880.0	11695.0	11660.0	9860.0	9580.0	7260.0	7240.0	6080.0	6080.0	6060.0	As/Pac/PapNG		03/09/94
1630	1830	Egypt	R Cairo	15255.0										c&sAI		08/16/90
1630	2200	Liberia	ELWA	4760.0										Regional	Sa 16-2130ISu 17-21	09/25/93
1645	1700	Ecuador	HCJB	21455.0	17790.0	15270.0								ME	Mo-Fr	04/14/94
1650	1850	New Zealand	R New Zealand Int'l	6100.0										Pacific	Mo-Fr	04/22/94
1700	1713	Lebanon	V of Lebanon	6549.3										ME	News	09/04/93
1700	1715	Swaziland	Trans World Radio	7120.0										cAI		03/08/94
1700	1727	Czech	R Prague	11640.0	7345.0	5930.0								Eu/AI		03/27/94
1700	1730	Switzerland	Swiss R Int'l	15635.0	13635.0	9885.0								ME/AI		03/27/94
1700	1730	USA	VOA	15445.0	15410.0	13710.0	12040.0	1530.0						Africa		04/27/94
1700	1745	United Kingdom	BBC ALT AFRICA	17880.0	15420.0	15400.0	15400.0	9630.0	6190.0	6005.0	3255.0	1197.0		AI		04/17/94
1700	1750	North Korea	R Pyongyang	9977.0	9640.0									ME/AI		09/19/92
1700	1750	North Korea	R Pyongyang	13785.0	9325.0									Eu		09/19/92
1700	1755	China	China R Int'l	15345.0	11575.0	9570.0								e&sAIr		06/18/93
1700	1755	Poland	Polish Radio Warsaw	9525.0	7285.0	7270.0								Eu		03/18/94
1700	1800	Algeria	R Algiers Int'l	17745.0	15255.0	15160.0	9535.0	1422.0						Eu/ME/AI		04/13/94
1700	1800	Azerbaijan	R Baku	15240.0										Eu		04/24/93
1700	1800	Ecuador	HCJB	21455.0	17790.0	15270.0								ME		04/14/94
1700	1800	Guam	KSDA	13720.0										India/eAI	Sa-Su	04/08/94
1700	1800	Japan	R Japan	9580.0	6150.0									GOS:As		03/20/94
1700	1800	Japan	R Japan	9535.0										GOS:NAm		10/28/93
1700	1800	Japan	R Japan	11930.0										GOS:ME/nAI		03/20/94
1700	1800	Morocco	R-TV Morocco	17815.0											Sa	09/02/92
1700	1800	N Mariana Is	KHBU2	9355.0										eAI		04/20/94
1700	1800	Pakistan	R Pakistan	9855.0	7485.0									wEu		01/01/94
1700	1800	Russia	R Moscow Int'l	15520.0	15500.0	15385.0	15290.0	15105.0	9880.0					World Service		03/27/94
1700	1800	Slovakia	AWR Eu	15625.0										eAI		03/31/94
1700	1800	Slovakia	AWR Eu	13595.0										Algh/Pakis		04/08/94
1700	1800	United Kingdom	BBC World Service	15070.0	15070.0	15070.0	12095.0	12095.0						Eu		04/20/94
1700	1800	USA	VOA	15255.0	15205.0	15205.0	9760.0	9700.0	6040.0					ME/nAI/Eu		04/27/94
1700	1800	USA	VOA	15395.0	15255.0	9645.0	7215.0	7125.0	6110.0					sAs		04/27/94
1700	1800	USA	WHRI	15105.0	13760.0									Carib/eNAm/Eu	separate pgm	06/16/93
1700	1900	USA	WYFR	21500.0										Eu/AI		10/08/93
1700	1930	United Kingdom	BBC World Service	6180.0										Eu		04/20/94
1700	2000	USA	WMLK	9465.0											Su-Fr	08/30/89
1700	2100	USA	KVOH	17775.0										CAm/Carib	Sa	05/29/93
1700	2200	USA	WWCR	15610.0										Eu/ME/nAI	tx #3	03/25/94
1715	1730	Swaziland	Trans World Radio	7120.0										cAI	Mo-Sa	03/08/94
1730	1800	Romania	R Romania Int'l	17805.0	17745.0	15365.0	15340.0							AI		05/22/93

SCHEDULES BY SUNDSTROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1730	1800	Sweden	R Sweden	15390.0	9655.0	6065.0	1179.0							ME/Al/Eu		03/16/94
1730	1800	USA	VQA	15445.0	15410.0	13710.0	12040.0	621.0						Africa		04/27/94
1730	1800	Vatican State	Vatican Radio	15090.0	11625.0	9695.0								e&sAl		03/22/94
1730	1827	Netherlands	R Netherlands	21590.0	17655.0	7120.0	6020.0							s&e&wAl		03/08/94
1745	1945	India	AIR	15080.0	11935.0	11860.0	11620.0	9950.0	7412.0					GOS/e&w&nAl/wEu/ME		05/24/92
1800	0200	Lebanon	King of Hope	6280.0										ME	Univ Network 22-02	05/29/93
1800	1825	Belgium	R Vlaanderen Int'l	15550.0	5910.0									Al/Eu		03/19/94
1800	1825	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
1800	1830	Norway	R Norway Int'l	15220.0	11745.0	9590.0	5960.0							eAl/Eu/ME/wAl	Su only	03/24/94
1800	1845	Swaziland	Trans World Radio	9500.0										eAl		09/02/93
1800	1850	Brazil	R Nacional de Brasil	15265.0										Eu		07/17/90
1800	1900	Argentina	RAE	15345.0										Eu/Alr	M-F	10/01/93
1800	1900	Australia	R Australia	11880.0	11695.0	11660.0	9860.0	9580.0	7260.0	7240.0	6080.0	6080.0	6060.0	As/Pac/PapNG		03/09/94
1800	1900	Ecuador	HCJB	21455.0										"Worldwide"		04/14/94
1800	1900	N Mariana Is	KHBI/1	9355.0										NZ		09/12/93
1800	1900	Philippines	R Philipinas	17840.0	15190.0									As	also Tagalog	09/25/93
1800	1900	Russia	R Moscow Int'l	15520.0	15500.0	15290.0	15180.0	15105.0	11630.0	9880.0				World Service		03/30/94
1800	1900	Sudan	R Omolurman	9165.0										Regional		12/21/93
1800	1900	United Kingdom	BBC World Service	15070.0	15070.0	15070.0	12095.0	12095.0						Eu	Rampisham -1830	04/20/94
1800	1900	USA	KJES	15385.0										Aus	irregular	04/01/94
1800	1900	USA	VQA	15580.0	15410.0	13710.0	13680.0	12040.0	7415.0	621.0				Africa		04/27/94
1800	1900	USA	VQA	15205.0	15205.0	9770.0	9760.0	6040.0	3980.0	1197.0				ME/nAl/Eu		04/27/94
1800	1900	USA	WCSN	17510.0										Al		04/20/94
1800	2000	N Mariana Is	KHBI/2	13770.0										Eu/ME		04/20/94
1800	2000	USA	KWHR	13625.0										NZ		12/10/93
1800	2015	Swaziland	Trans World Radio	3200.0										sAl		09/02/93
1800	2100	Kuwait	R Kuwait	11990.0										Eu		03/05/94
1800	2100	USA	WHRI	13760.0	9485.0									eNA/m/Eu/Carib		12/25/93
1800	2200	USA	KVOH	17775.0										CAm/Carib	Su	05/29/93
1815	1900	Bangladesh	R Bangladesh	9700.0										Eu/ME		11/04/93
1830	1900	Austria	ORF	6155.0	5945.0									ME		03/25/94
1830	1900	Austria	ORF	9880.0										Al		03/25/94
1830	1900	Austria	ORF	13730.0										Al		04/14/94
1830	1900	United Kingdom	BBC ALT AFRICA	15400.0	15400.0	9630.0	6190.0	6005.0	1197.0					Eu		04/02/94
1830	1900	Yugoslavia	R Yugoslavia	6100.0										Al		04/14/94
1830	1927	Netherlands	R Netherlands	21590.0	17655.0	7120.0	6020.0							s&e&wAl		03/08/94
1840	1850	Greece	V of Greece	17525.0	15650.0									Al		04/09/94
1840	1855	Venezuela	R Nacional de Venezuela	9540.0										SAm	News/Eng	06/06/91
1851	2137	New Zealand	R New Zealand Int'l	11735.0										Pacific	News/Eng M-Sa	04/22/94
1900	1915	Azerbaijan	V of Azerbaijan	15240.0	4957.5									Domestic		09/28/93
1900	1915	Sierra Leone	SLBS	3316.0											Sa UN Radio	09/24/92

SCHEDULES BY SURUSINUM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1900	1925	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
1900	1930	Finland	R Finland	15440.0	11755.0	9770.0	9730.0	6120.0	963.0	558.0				Eu	Sa -1925	04/12/94
1900	1930	Hungary	R Budapest	7220.0	6110.0	3955.0								Eu		04/20/94
1900	1930	Israel	Kol Israel	15640.0	11603.0	9435.0								wEu/NAm		03/27/94
1900	1930	Israel	Kol Israel	11675.0										wNAm		03/27/94
1900	1930	Israel	Kol Israel	17575.0										AI		03/27/94
1900	1930	Lithuania	R Vilnius	9710.0	9675.0	9400.0	1557.0	666.0						Eu		03/31/94
1900	1930	Portugal	R Portugal	11975.0	9815.0	9780.0								Eu	Mo-Fr	04/01/94
1900	1930	Portugal	R Portugal	17680.0	11975.0									AI	Mo-Fr	04/01/94
1900	1930	Switzerland	Swiss R Int'l	6165.0										Eu		04/17/94
1900	1930	United Kingdom	BBC ALT AFRICA	15400.0	15400.0	6190.0	6005.0	1197.0						AI	Sa-Su	04/14/94
1900	1930	United Kingdom	BBC World Service	6195.0	648.0									Eu	6195 -1915	04/19/94
1900	1950	Germany	R Deutsche Welle	15350.0	13790.0	13690.0	11810.0	11785.0	11740.0	9735.0	9640.0			wAI/ME		03/08/94
1900	1955	China	China R Int'l	11515.0	9440.0	6955.0								w&nAIr		06/18/93
1900	2000	Bulgaria	R Bulgaria	11720.0	9700.0									wEu		03/23/94
1900	2000	Ecuador	HCJB	21455.0	17790.0	17490.0	15270.0							Eu		01/18/94
1900	2000	Japan	R Japan	9580.0	6150.0									GOS:As		03/21/94
1900	2000	Japan	R Japan	9535.0										GOS:NAm		10/28/93
1900	2000	Japan	R Japan	9610.0	7140.0									GOS:Oc		03/21/94
1900	2000	Morocco	R-TV Morocco	11920.0											Su	09/02/92
1900	2000	Romania	R Romania Int'l	11940.0	9690.0	6105.0	5955.0							Eu		11/21/93
1900	2000	Russia	R Moscow Int'l	17560.0	15520.0	15500.0	15480.0	15290.0	15105.0	11630.0	9880.0	9510.0		World Service	R Aum 1930-2000	04/01/94
1900	2000	Slovakia	AWR Eu	15625.0										c&wAI		03/31/94
1900	2000	Spain	Spanish National Radio	11775.0										AI		11/07/93
1900	2000	Turkmenistan	V of Turkmen	5015.0	4825.0									ME	Tu&Th&Sa	03/31/94
1900	2000	United Kingdom	BBC World Service	15070.0	15070.0	12095.0	12095.0							Eu		04/20/94
1900	2000	USA	VOA	15580.0	15445.0	15410.0	13710.0	12040.0	7415.0	621.0				Africa		04/27/94
1900	2000	USA	VOA	15180.0	11870.0	9525.0								Pac		04/27/94
1900	2000	USA	VOA	15205.0	15205.0	9770.0	9760.0	6040.0	3980.0					ME/nAI/Eu		04/27/94
1900	2000	USA	WCSN	17510.0										AI		04/20/94
1900	2000	USA	WSHB/2	15665.0										eEu/CIS		02/18/94
1900	2000	USA	WYFR	21615.0	15355.0									Eu/Al		10/08/93
1900	2045	Swaziland	Trans World Radio	3240.0										sAI		09/02/93
1900	2100	Australia	R Australia	11720.0	11660.0	7260.0	7240.0	6150.0						As/Pac/PapNG		03/09/94
1900	2100	Australia	R Australia	11880.0	11695.0	9860.0	9580.0	6080.0	6060.0					As/Pac/PapNG	#2 - 2030	03/09/94
1900	2100	Nigeria	V of Nigeria	7255.0										wAI		07/24/93
1900	2100	USA	WEWN	15695.0										UK	*Program C*	09/11/93
1915	1930	United Kingdom	BBC World Service	9410.0	9410.0	6195.0	6195.0	6195.0	6195.0	6195.0	6195.0			Eu		04/20/94
1930	2000	N Mariana Is	KFBS	9465.0												03/07/92
1930	2000	Slovakia	R Slovakia Int'l	9440.0	7345.0	5915.0								wEu		10/04/93
1930	2000	United Kingdom	BBC ALT AFRICA	17880.0	15400.0	15400.0	6190.0	6005.0	1197.0					AI	17880: -2030	04/17/94

SCHEDULES BY SUNDBROM

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
1930	2000	United Kingdom	BBC ALT EUROPE	6195.0	6195.0	6195.0	6180.0							Eu	Su-Fri	04/13/94
1930	2000	United Kingdom	BBC World Service	9410.0	9410.0	6195.0	6195.0	6195.0	6180.0					Eu		04/17/94
1930	2025	Poland	Polish Radio Warsaw	9525.0	7285.0	6135.0	1503.0							Eu		03/18/94
1930	2027	Netherlands	R Netherlands	17655.0	17605.0									wAI		03/08/94
1935	1955	Italy	RAI	11800.0	7275.0									Great Britain		01/12/94
1940	2010	Mongolia	R Utan Bator	11850.0	11790.0									Eu		10/09/92
1945	2000	Armenia	R Yerevan	6065.0	5930.0	4990.0	4810.0	1395.0	864.0					ME		10/27/93
1950	2010	Vatican State	Vatican Radio	5882.0	3950.0	1530.0								Eu		03/22/94
2000	2027	Czech	R Prague	7345.0	5930.0									Eu		03/27/94
2000	2027	Czech	R Prague	9485.0										As/Pac		03/27/94
2000	2030	Latvia	R Latvia	5935.0												
2000	2030	Norway	R Norway Int'l	15220.0	9590.0									Eu/AI	Sa-Su	10/22/93
2000	2030	Switzerland	Swiss R Int'l	15505.0	13635.0	9885.0	6135.0							AI	Su only	03/24/94
2000	2030	United Kingdom	BBC World Service	15070.0	12095.0	12095.0	9410.0	9410.0	7325.0	6195.0	6195.0	6180.0	648.0	Eu		04/20/94
2000	2030	USA	VOA	15580.0	15445.0	15410.0	15160.0	13710.0	11820.0	7415.0				Eu		04/13/94
2000	2030	Vatican State	Vatican Radio	15090.0	11625.0	9645.0								Africa		04/27/94
2000	2050	Germany	R Deutsche Welle	9615.0	7170.0									c&s&wAI		09/22/91
2000	2050	North Korea	R Pyongyang	9977.0	9640.0									Eu		04/16/94
2000	2050	North Korea	R Pyongyang	9345.0	6576.0									ME/AI		01/01/90
2000	2050	Turkey	V of Turkey	9900.0										Eu		01/01/90
2000	2055	China	China R Int'l	11500.0	9920.0									Eu		03/19/94
2000	2055	China	China R Int'l	15110.0	11715.0									Eu		03/29/94
2000	2055	China	China R Int'l	9440.0										e&sAI		03/30/94
2000	2100	Indonesia	V of Indonesia	11752.0	9675.0									w&nAI		10/17/93
2000	2100	Russia	R Moscow Int'l	11630.0	9880.0	9510.0								Eu		11/29/92
2000	2100	Slovakia	AWR Eu	6055.0										World Service		03/29/94
2000	2100	United Kingdom	BBC World Service	15070.0	15070.0	12095.0	12095.0							nEu		03/31/94
2000	2100	United Kingdom	BBC World Service	15260.0										Eu		04/20/94
2000	2100	USA	KJES	15385.0										CAm/SAM/Carib	irregular	04/14/94
2000	2100	USA	VOA	15205.0	15205.0	9770.0	9760.0	6040.0						Carib		04/01/94
2000	2100	USA	WCSN	13770.0										ME/nAI/Eu		04/27/94
2000	2130	Ecuador	HCJB	21455.0										AI	alt 7510	02/18/94
2000	2130	Sri Lanka	SLBC	15120.0	9720.0									"Worldwide"		04/14/94
2000	2200	USA	KWHR	15405.0										Eu		08/24/91
2000	2200	USA	WSHB/2	15665.0										Japan		03/08/94
2000	2200	USA	WYFR	21615.0	1525.0	17612.5	15566.0	15355.0						UK/e&wEu		02/18/94
2000	2300	Guatemala	AWR LAm	5980.0										Eu/AI	#4 or #5, not both	03/08/94
2001	2010	Greece	V of Greece	9395.0										LAm		04/08/94
2005	2105	Syria	R Damascus	15095.0	12085.0									Eu	News/Eng	04/02/94
2015	2030	United Kingdom	BBC ALT AFRICA	15400.0	15400.0									Eu/NAM		02/03/91
2015	2030	United Kingdom	BBC ALT AFRICA	6190.0	6005.0									AI	M-F	04/14/94
														eAI	Mo-Fri	04/11/94

SCHEDULES BY SOUNDTRACK

Xmas Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
2015	2045	Swaziland	Trans World Radio	3200.0										sAI	Su	09/02/93
2025	2045	Italy	RAI	11800.0	9575.0	7235.0								Near East		04/24/91
2030	2055	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
2030	2055	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
2030	2059	Canada	R Canada Int'l	17875.0	17855.0	17820.0	15325.0	13670.0	13650.0	7235.0	5995.0			AI/ME/Eu		03/18/94
2030	2059	South Korea	R Korea	5965.0										Eu		04/24/94
2030	2059	South Korea	R Korea	9640.0										seAs		04/24/94
2030	2059	South Korea	R Korea	9870.0										ME/Al		04/24/94
2030	2059	South Korea	R Korea	5975.0										GOS		10/03/93
2030	2100	Moldova	R Dnestr Int'l	9620.0	999.0									Eu	Mo, We, Sa w/repeat next day	03/31/94
2030	2100	Sweden	R Sweden	9655.0	6065.0	1179.0								Eu/Al/ME		03/16/94
2030	2100	United Kingdom	BBC ALT AFRICA	6005.0	3255.0	1197.0								Al		04/11/94
2030	2100	United Kingdom	BBC World Service	9410.0	9410.0	7325.0	6195.0	6195.0	6195.0	6180.0	648.0			Eu		04/13/94
2030	2100	USA	VOA	15580.0	15445.0	15410.0	13710.0	7415.0	1530.0	621.0				Africa		04/27/94
2030	2200	Egypt	R Cairo	15375.0										wAI		08/16/90
2045	2230	India	AIR	15265.0	11715.0	11620.0	9950.0	9910.0	7412.0					GOS/AusNZ/wEu		08/26/91
2100	0100	Lebanon	Wings of Hope	11530.0										ME	Univ Network	05/29/93
2100	1400	Papua New	Natl Broadcasting Comm	9675.0										PapNG		12/17/93
2100	2110	Ghana	Ghana BC Corp	3366.0											News in English	12/23/87
2100	2115	Cameroon	R Cameroon	5010.0											news in English	12/04/88
2100	2115	Japan	R Japan	11915.0	9600.0									Reg Svc:seAs		03/20/94
2100	2125	Belgium	R Viaanderen Int'l	5910.0										Eu		03/19/94
2100	2127	Czech	R Prague	9485.0	7345.0	5930.0								Eu/Al		03/27/94
2100	2130	Australia	R Australia	11880.0	11855.0	11720.0	9645.0	6080.0	6060.0					As/Pac/PapNG		03/09/94
2100	2130	China	China R Int'l	3985.0										Eu		03/30/94
2100	2130	Hungary	R Budapest	7220.0	6110.0	3955.0								Eu		04/20/94
2100	2130	USA	VOA	15580.0	15445.0	15410.0	13710.0	9535.0	7415.0	1530.0	621.0			Africa	9535: -2200	04/27/94
2100	2130	Yugoslavia	R Yugoslavia	9595.0	7265.0									Aus		04/23/94
2100	2150	Germany	R Deutsche Welle	15435.0	13690.0	11785.0	9765.0	9670.0						As/Pac		03/08/94
2100	2150	Germany	R Deutsche Welle	15350.0	15135.0	9735.0								wAI		03/08/94
2100	2155	China	China R Int'l	11500.0	9920.0									Eu		03/29/94
2100	2200	Bulgaria	R Bulgaria	11720.0	11645.0	9700.0								NAm/wEu		03/23/94
2100	2200	Cuba	R Havana	17760.0										Eu/Al/ME		04/23/94
2100	2200	Japan	R Japan	9750.0	9625.0	6185.0	6035.0							GOS:As		03/20/94
2100	2200	Japan	R Japan	9610.0										GOS:Oc		03/20/94
2100	2200	Japan	R Japan	11925.0										GOS:Eu/ME		09/03/93
2100	2200	N Mariana Is	KHBI/1	13840.0										Aus		10/18/93
2100	2200	Romania	R Romania Int'l	9690.0	7195.0	7105.0	6105.0	5990.0						Eu		11/21/93
2100	2200	Russia	R Moscow Int'l	15290.0	12065.0	11805.0	11770.0	11760.0	11730.0	11630.0	9880.0	9510.0	7380.0	World Service		03/29/94
2100	2200	South Korea	R Korea	15575.0	6480.0									Eu		03/29/94
2100	2200	Spain	Spanish National Radio	6125.0										Eu		11/15/92

SCHEDULES BY SUNDBROM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
2100	2200	Ukraine	R Ukraine Int'l	12030.0	11950.0	11780.0	11705.0	11610.0	9640.0					Eu	as obs > 9 MHz	04/25/94
2100	2200	Ukraine	R Ukraine Int'l	7285.0	7240.0	7150.0	6090.0	6020.0	4825.0					Eu	as obs < 9 MHz	04/25/94
2100	2200	United Kingdom	BBC World Service	9410.0	9410.0	7325.0	6195.0	6195.0	6195.0	6180.0	648.0			Eu		04/13/94
2100	2200	USA	VOA	17735.0	15185.0	11870.0								Pac		04/27/94
2100	2200	USA	VOA	15205.0	15205.0	9760.0	9535.0	6160.0	6040.0	1260.0				ME/nAl/Eu		04/27/94
2100	2200	USA	WCSN	13770.0										AI/Eu	all 7510	02/18/94
2100	2215	United Kingdom	BBC World Service	15070.0	12095.0	12095.0								Eu		04/20/94
2100	2230	Palau	KHBN	9965.0										As		03/08/94
2100	2300	USA	WHRI	13760.0	9485.0									Carib/eNA/m/Eu		03/08/94
2100	2400	United Kingdom	BBC World Service	15260.0	5975.0									SAm/nAm/CAm		04/14/94
2103	2115	Croatia	Croatian Radio	9830.0	5920.0										News/English	04/20/94
2110	2210	Syria	R Damascus	15095.0	12085.0											07/07/91
2115	2130	Sierra Leone	SLBS	3316.0										NAm/AusNZ		09/24/92
2115	2130	United Kingdom	BBC Carib.Report	17715.0	15390.0	6110.0								Carib	Fr&Sa UN Radio	04/16/94
2115	2245	Egypt	R Cairo	9900.0										Eu	Mo-Fri	08/16/90
2130	2135	Latvia	R Latvia	5935.0	576.0										Mo-Fr	10/22/93
2130	2143	Armenia	R Yerevan	11960.0	11790.0									Eu		04/16/94
2130	2145	United Kingdom	BBC Call Falklands	13660.0										sAl	Tu&Fr	04/14/94
2130	2200	Australia	R Australia	17795.0	13755.0	11880.0	11855.0	11720.0	9645.0					As/Pac/PapNG		03/09/94
2130	2200	Austria	ORF	9880.0	6155.0	5945.0								Eu		03/25/94
2130	2200	Austria	ORF	13730.0	9880.0									AI		03/25/94
2130	2200	Ecuador	HCBJ	21455.0	17490.0	15270.0	11835.0							Eu		04/14/94
2130	2200	Israel	Kol Israel	11603.0	7465.0									NAm/wEu		03/27/94
2130	2200	Israel	Kol Israel	11675.0										wNA		03/27/94
2130	2200	Israel	Kol Israel	17575.0	9435.0									LAm		03/27/94
2130	2200	Lithuania	R Vilnius	9710.0	9675.0	1557.0	666.0							Eu		03/31/94
2130	2200	Sweden	R Sweden	6065.0	1179.0									Eu/AI/ME		03/16/94
2130	2200	USA	VOA	15580.0	15445.0	15410.0	13710.0	7415.0	1530.0	621.0				Africa	Su-Fr	04/27/94
2138	0458	New Zealand	R New Zealand Int'l	15115.0										Pacific		04/22/94
2140	2155	Venezuela	R Nacional de Venezuela	9540.0										SAm	news/Eng M-Sa	06/06/91
2144	2158	Armenia	R Yerevan	11960.0	11790.0									Eu		04/16/94
2200	0000	United Kingdom	BBC World Service	9915.0										CAm/SAm		04/16/94
2200	0200	USA	WEWN	7425.0										NAm	tx#1-Program A'	04/18/93
2200	2205	Nigeria	R Nigeria	4990.0											News in Eng	10/11/89
2200	2215	United Kingdom	BBC World Service	9410.0	9410.0	7325.0	7325.0	6195.0	6195.0	6195.0	648.0			Eu		04/13/94
2200	2225	Italy	RAI	11800.0	9710.0	5990.0								Japan		01/12/94
2200	2229	Canada	R Canada Int'l	15305.0	13670.0	11875.0	11845.0	9755.0	5960.0					Carib/LAm/NA		03/18/94
2200	2229	Canada	R Canada Int'l	11705.0										seAs		03/18/94
2200	2229	South Korea	R Korea	9640.0										seAs		03/18/94
2200	2230	Yugoslavia	R Yugoslavia	9620.0										Eu		04/24/94
2200	2250	Turkey	V of Turkey	11710.0	9445.0	7185.0								Eu/NA/ME		04/02/94

SCHEDULES BY SUNDBROM

Xmsa Start	Show Start	Country	Station	Fq.	Target	Notes	Update							
				1	2	3	4	5	6	7	8			
2200	2255	China	China R Int'l	9880.0								Eu		03/29/94
2200	2300	Australia	R Australia	17860.0	17795.0	15365.0	13755.0	11880.0	11855.0	11720.0	11695.0	As/Pac/PapNG		03/09/94
2200	2300	Cuba	R Havana	6180.0								Carib/sUSA		11/08/92
2200	2300	N Mariana Is	KHBU/1	13625.0								Japan/Kor/CIS		04/20/94
2200	2300	N Mariana Is	KHBU/2	15405.0								China		04/20/94
2200	2300	Russia	R Galaxy	9880.0								wEu/cEu		09/28/93
2200	2300	Russia	R Moscow Int'l	15290.0	12065.0	11805.0	9470.0					World Service		03/29/94
2200	2300	Slovakia	AWR Eu	11610.0								wAI		03/31/94
2200	2300	Taiwan	V of Free China	21720.0	17750.0							Eu		04/08/94
2200	2300	USA	VQA	17735.0	15305.0	15290.0	15185.0	11760.0	9770.0	7215.0	7105.0	eAs/seAs/Pac		04/27/94
2200	2300	USA	WSHB/1	13770.0								Eu/eNAM	alt 5850	04/20/94
2200	2300	USA	WSHB/2	17555.0								eSAM		09/12/93
2200	2300	USA	WYFR	21525.0	17612.5							Eu/AI		03/08/94
2200	2400	United Arab	V of UAE	11885.0	9770.0	9605.0						NAM		12/02/93
2200	2400	United Kingdom	BBC World Service	9590.0								NAM		04/13/94
2200	2400	USA	KWHR	17645.0								Japan		03/08/94
2200	2400	USA	WWCR	12160.0								Eu/ME/nAI	tx #3	11/05/93
2215	2245	United Kingdom	BBC World Service	7325.0	648.0							Eu		04/19/94
2230	0100	Palau	KHBN	9830.0								As		03/08/94
2230	2243	Armenia	R Yerevan	11945.0	11920.0	11790.0						LAM		04/16/94
2230	2245	China	CPBS 2	5163.0	4905.0	4800.0						Regional		11/09/93
2230	2259	Canada	R Canada Int'l	13670.0	9755.0	5960.0						Carib/LAM/NAM		03/18/94
2230	2300	Finland	R Finland	13750.0								As/Aus	Su -2253	04/22/94
2230	2300	Finland	R Finland	11755.0								SAM	Sa -2255	03/27/94
2230	2300	Sweden	R Sweden	6065.0	1179.0							Eu		03/16/94
2240	2250	Greece	V of Greece	11645.0	9425.0							AusNZ	News/Eng ex Sa	04/24/94
2244	2258	Armenia	R Yerevan	11945.0	11920.0	11790.0						LAM		04/16/94
2245	0045	India	AIR	15145.0	15110.0	11745.0	11715.0	9910.0				GOS/As		11/10/92
2245	2300	Ghana	Ghana BC Corp	4915.0	3366.0							American Republics	nx/English	09/09/90
2245	2300	USA	VQA	15155.0	11730.0	9670.0						Mo-Fri OAS		03/18/94
2245	2305	Vatican State	Vatican Radio	11830.0	9600.0							As/AusNZ		09/12/93
2245	2315	United Kingdom	BBC World Service	7325.0	648.0							Eu		04/12/94
2245	2345	Bulgaria	R Bulgaria	11720.0	9700.0							NAM/wEu		03/23/94
2300	0000	United Kingdom	BBC World Service	9590.0	6175.0							NAM		04/09/94
2300	0100	Guam	KSDA	15610.0								seAs		03/26/92
2300	0200	USA	WEWN	7425.0								NAM	*Program A*	09/11/93
2300	0300	South Africa	Radio 2000	4810.0								nwCape/Namibia		09/12/93
2300	0400	USA	WRNO	7355.0								NAM/CAM	Spanish Tu-F	10/28/93
2300	2310	Sierra Leone	SLBS	3316.0								news/Eng		09/24/92
2300	2315	Albania	R Tirana	11825.0	9760.0	1395.0						Eu		10/27/93
2300	2330	Lithuania	R Vilnius	11770.0								NA/Eu	Mo-Fri only 5min news.	03/31/94

SCHEDULES BY SUNDSTROM

Xmsn Start	Show Start	Country	Station	Fq. 1	Fq. 2	Fq. 3	Fq. 4	Fq. 5	Fq. 6	Fq. 7	Fq. 8	Fq. 9	Fq. 10	Target	Notes	Update
2300	2330	Norway	R Norway Int'l	11860.0	9655.0									LAm/eNAM	Su only	03/24/94
2300	2350	North Korea	R Pyongyang	13650.0	11700.0									Am		02/24/91
2300	2359	Canada	R Canada Int'l	15235.0	13670.0	11940.0	9755.0	5960.0						Carib/LAm/NAM	Sa-Su	03/18/94
2300	2400	Australia	R Australia	17860.0	17795.0	15365.0	13755.0	11880.0	11855.0	11720.0	11695.0			As/Pac/PapNG		03/09/94
2300	2400	Ecuador	HCJB	21455.0										"Worldwide"		04/14/94
2300	2400	Japan	R Japan	9625.0	6185.0									GOS:As		03/21/94
2300	2400	Japan	R Japan	9610.0										GOS:Oc		03/21/94
2300	2400	Japan	R Japan	6125.0	5975.0									GOS:Eu		03/21/94
2300	2400	N Mariana Is	KHBI/1	13625.0										Indon		04/20/94
2300	2400	N Mariana Is	KHBI/2	15405.0										China		04/20/94
2300	2400	Russia	R Moscow Int'l	12065.0	11805.0									World Service		03/27/94
2300	2400	Singapore	R Singapore Int'l	9530.0										Regional Svc		02/05/94
2300	2400	United Kingdom	BBC World Service	7325.0										cAm		04/19/94
2300	2400	USA	VOA	17735.0	15305.0	15290.0	15185.0	11760.0	9770.0	7215.0				eAs/seAs/Pac		04/27/94
2300	2400	USA	WHRI	9495.0	7315.0									eNAM/Eu/Carib	separate pgm Tu-Fr	03/08/94
2300	2400	USA	WSHB/1	13770.3	13770.0									Eu/eNAM/Carib	alt 5850	04/20/94
2300	2400	USA	WSHB/2	17555.0										SAM		09/12/93
2315	2345	United Kingdom	BBC World Service	7325.0	648.0									Eu		04/12/94
2330	0027	Netherlands	R Netherlands	6165.0	6020.0									eNAM		03/08/94
2330	2355	Belgium	R Vlaanderen Int'l	13655.0	11740.0									SAM/NAM		03/19/94
2330	2355	Vietnam	V of Vietnam	15008.8	9839.9									Eu		11/07/89
2330	2400	Sri Lanka	SLBC	15425.0										eNAM	Mo	07/22/93
2330	2400	Sweden	R Sweden	11910.0										As/Pac		03/20/94
2335	2345	Greece	V of Greece	11645.0										SAM/CAM	News/Eng ex Sa	04/24/94
2345	0000	United Kingdom	BBC World Service	7325.0	648.0	198.0								Eu		04/12/94

Authorized Dealer

JRC

& Skywaves Antennas

PC Software by W2XQ

English Language SWBC Schedules
JRC/Kenwood/Lowe Receiver Control
TRS Time for Windows™

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

TRS CONSULTANTS, PO Box 2275-NA, VINCENTOWN, NJ 08088-2275

Internet 2446376@mcimail.com

radio broadcasting company *Kazakhstan* is to be closed down and a republican corporation of Kazakhstan's television and radio is to be set up instead. The head of state says his decision has been caused by objective necessity: it is obvious that the state broadcasting company has lost the struggle for radio audience to the numerous commercial studios and stations in Kazakhstan, as well as to programmes broadcast from Moscow. (BBCMS Summary of World Broadcasts No. 14 April 8th)

LAOS—Here is Tony "Ironman" Orr's special report filed from Luang Prabang, Laos on April 18th: The regional station at *Luang Prabang* (7164v) is on the air but due to power shortages is an on-and-off affair. Oddly enough, reception of *Luang Prabang* is better in Vientiane. No sign of the regional stations at *Phongsali* (frequency ?) or *Houa Phan* (4660), I would suspect they are inactive or if active their transmitters are in such poor shape that they would only be heard at very short distances. *Lao National Radio* in Vientiane is on 49 and 41 meters with muddy modulation. I have pictures of both *Luang Prabang* and *Vientiane* buildings but no tours are given to foreigners! Tons of Chinese (stations) everywhere, especially on 41 and 49 meters. For some weird reason the radio I am using (locally purchased) omits 4.7 to 4.999 khz and then picks up at 5000 to 5150. You figure that one out mate! (Tony Orr April 18th)

While all the target countries of the proposed *Radio Free Asia* have denounced the service, what follows will give you an idea of the nature of their objections. (HJ) From *Pasason*, Vientiane, 9 February 1994—Excerpts from commentary published in Lao People's Revolutionary Party newspaper. International public opinion has welcomed the US move to lift the 30-year trade embargo against Vietnam. Everyone has praised the decision of President Clinton on this issue as it was considered an appropriate act, in line with the trends of the final decade of the 20th century, an era regarded by various industrialized countries, including the United States, as one of achieving cooperation and mutual understanding in all fields. In the light of this atmosphere, why did the US Senate recently once again approve the establishment

of *Radio Free Asia* with the intention of beaming news broadcasts to China, Myanmar [Burma], Tibet, the DPRK, Cambodia, Vietnam and the Lao People's Democratic Republic? It has said with a straight face that the residents of these countries have not had full freedom to express their views. It has also noted that *Radio Free Asia* will serve as a tool to gather views in different fields from the people of these countries. This may not be the true purpose of *Radio Free Asia*. There must be other purposes. Radio experts are of the view that the new *Radio Free Asia* broadcasts will create interference on frequencies used by broadcasters in the various countries in this region. *Radio Free Asia* has [as published] also reprimanded the various nations in the region by saying that they have not maintained the full rights and freedom of people to express their views. The Lao people, like the peoples of other Indochinese countries, China, Myanmar, Tibet and the DPRK, already enjoy full rights and freedom of expression. They can speak freely on whatever they want without needing *Radio Free Asia*. They have also exercised the right effectively to safeguard their sovereignty and territorial integrity by opposing outside intervention and aggression under various forms. Economically, the United States has announced the end of the trade embargo against Vietnam. It has taken a valuable step. Why has it now announced the establishment of *Radio Free Asia*? In spirit, this contradicts the economic interests of the peoples in the region. *BBC* radio on 29th January expressed the view that the United States wants to set up *Radio Free Asia* because of its experience with its *Radio Free Europe* and *Radio Liberty* contributing to the collapse of communism in Europe four to five years ago. If the *BBC* is correct, the new *Radio Free Asia* will not be characterized by creation at all. Its purpose also runs counter to the earnest aspirations of the various nations in this region, which want to create mutual understanding and promote and expand cooperation in various fields with all countries in the world, including the United States. In general, no matter what is behind the establishment of *Radio Free Asia*, if the owner of a radio station fails to understand the essential requirements, the true purpose of the establishment of the station will certainly become clear to the world. The peoples in the region to whom the broadcasts of the station

will be beamed towards will even enhance their spirit of self-mastery and the spirit of being the owners of their countries, strengthening their cooperation in various fields to check all acts of outside intervention regardless of the form. (BBCMS Summary of World Broadcasts No. 8 February 25th)

LATIN AMERICA—*AWR* will issue specially endorsed QSL for reception reports of its stations located in Guatemala City, Cahuita and the independent station in Santo Domingo. Here are the stations:

- ☞ 5030 AWR Cahuita
- ☞ 5980 Union Radio Guatemala City
- ☞ 6025 Radio Amanecer Santo Domingo
- ☞ 6150 AWR Cahuita
- ☞ 9725 AWR Cahuita
- ☞ 11870 AWR Cahuita
- ☞ 13750 AWR Cahuita

All of these can be heard at 1100 as well as many other times. Send your reports to: AWR-Special Projects, 903 Tanning Drive, Indianapolis, IN 46239. (Radio News Bulletin March)

LATVIA—*Radio Riga* is also observed in English from 2000-2030 on 5935 during the weekends. This is in addition to the weekday transmission from 2130-2135. (Southwell Shortwave News April)

LIBERIA—*Radio ELRL* 6090, which also identifies itself as Radio Liberia, was first heard by BBCM on 27th February 1994 and may replace Charles Taylor's *Radio Liberia* from Gbarnga. The station announces that it is the radio service of the Liberia Communications Network, that it is owned and operated by International Promoters and Associates and that it is licensed by the NPRA (National Patriotic Reconstruction Assembly) government. It is heard between 1000-1830 in English. (BBCMS Summary of Broadcast Schedules No. 15 April 15th)

MALAYSIA—*RTM* is offering a new, stunning, multi-colored sticker pennant. (Pavanello Play Dx No. 786 April 18th)

MEXICO—*Radio Universidad de Sonora* 6115 is inactive. (Zeller Numero Uno No. 1265 April 1st)

MOLDOVA — see **CLANDESTINES EUROPE**

MOZAMBIQUE—*Radio Mocambique*
According to the PANA news agency, The finance ministry has bowed to strong pressure and increased this year's subsidy to *Radio Mocambique*. Earlier, the finance ministry had tried to freeze the station's allocation from the state budget at 1993 levels despite inflation of over 30%. This plunged the radio into deep financial crisis and threatened its ability to act as a national public service during the forthcoming election campaign. The finance ministry has now agreed to release an additional 1.77 Billion meticaais (about 312,000 US dollars) for the radio to purchase essential equipment and services this year. (BBCMS Summary of World Broadcasts No. 14 April 8th)

NAMIBIA—"The Director-General of the *Namibian Broadcasting Corporation*, Mr. Nahum Gorelick, has warned politicians against considering television more important than radio in Africa. In a speech... (he) said that it was hardly surprising that the African people, the great majority of whom could neither read nor write in the colonial languages of French or English, had been quick to adopt radio which 'communicates in their own language'. However, he said: 'There is a dangerous tendency for politicians to consider television to be more important at this stage of technological development and one must be careful not to exclude radio especially with content relating to development information.' The rural world was a 'priority sector' for radio.... The use of African national languages moved broadcasting away from its 'unilateral and elitist' conception, and had begun to strengthen the African cultural personality.

Certain rural radio services had enabled the populations to get into dialogue with the national authorities. They had also stimulated a certain commonality of interest between rural populations.... (As to television,) aside from its cost it remains an elitist medium and difficult to 'decode.... One of the main problems for African television is finding good African products for the public.'" (COMBROAD March via Don Moore)

NORTH KOREA—*KCBS-Sariwon* 2350 has been off the air for several months. (Relampago Dx No. 35 March 25th)

PAKISTAN—*Radio Pakistan* 15190 A new frequency heard with dictation speed news from 0230-0245. Parallel 17725. (Bob Padula April 1st)

According to *The Indian Express* newspaper, Pakistan has set up "more clandestine radio stations in Pakistani-occupied Kashmir" in its campaign against Indian civil & military authorities in the Indian portion of Kashmir. These stations are using six different languages spoken in Kashmir. (COMBROAD March via Don Moore)

PAPUA NEW GUINEA—*NBC* 6040 is still active here. (Seager Australian Dx News April)

PARAGUAY—*Radio Nacional* 6025 has been inactive here for two years. (TIN Relampago Dx March)

Radio Nacional 9735 returned to the air after several weeks absence. Heard at 0800. (Relampago Dx Logging No. 35 March 25th)

Radio Cardinal AM Stereo 15200 has plans to operate here. (TIN Relampago Dx March)

PERU—*Radio Internacional de Peru* 3397 (955-1035 April 10th with ID at 1002, greetings to listeners, folk mx. This was almost all true Indian folk mx, played only with flutes and percussion. These were the only instruments available to the Incas until the Spanish arrived and introduced stringed instruments. Really good music! Fair. (Don Moore)

Radio Otorongo 4108v is the correct name of the station heard here in January 1993. Otorongo is the name of a local jaguar. (Klemetz Numero Uno No. 1267 April 15th)

Estacion X 4593.5 is now only on FM. (P Capo M. WRTHLA via Shortwave News April)

Radio Estacion Laser 4705 not heard lately, but their address is: Jr. Faustino Maldonado 308. (Klemetz WRTHLA *ibid.*)

Radio La Hora 4858v 1014-1035 April 9th Good signal with folk mx & talk in mix of Spanish & Quechua. Several IDs and LOTS of ads. All the ads were being done on the spot by the announcer and he just smoothly switched back and forth between the two languages within the same ad. Obviously a fluent bilingual. Especially interesting was an ad for "International Motors", a car sales company. I would think that anyone who has made enough money to buy a car in the Peruvian economy would know Spanish, even in Quechua were his native language. But, the ad was still bilingual. Other ads included Panificadora San Martin (bakery), Libreria San Andres (bookstore), & Transportes Mora (bus company). Also gave sked of Sunday masses in two main cathedrals. Another announcement told of new facilities being developed to improve the tourism industry & stressed the importance of tourism to Cuzco. IDs as *La Hora esta con ti*. *Radio La Hora* and *Esta contigo*, *Radio La Hora*. Good signal. (Don Moore)

Radio La Oroya 4904.8 A new one, signs on at 1028 and seems to be on in the evening too. (Valko Numero Uno No. 1266 April 8th) 1043-1109 April 9th with folk mx (mostly guitar, as per Dave Valko who discovered this new one), time checks, possible ID at 1059. Fair signal, but faded out fast after 1100. Same day Dave e-mailed me about this station, I received a San Francisco Examiner article about La Oroya on the Internet Peru list. The article notes that "More than 90 years of mining and smelting...have turned La Oroya...and the nearby Mantaro Valley into what one U.S. environmental expert calls 'a vision from hell'.... La Oroya is a quintessential company town, a dingy cluster

of homes dominated by the enormous smokestacks of the Centromin smelter. Smoke billows into the Andean sky. Pipes pour untreated waste into the Mantaro River, whose banks are piled high with black slag heaps. The company's stranglehold extends past La Oroya throughout the Mantaro Valley and beyond. Its refineries, concentrators and seven mines dot the central Andes. At the Morococho mine 20 miles from La Oroya, sickly yellow-gray tailings sprawl across a vast plain, and acid mine drainage has turned a nearby lake deep red.... The company's worst mine is at Cerro de Pasco, where acid mine drainage has 'killed' the San Juan River and filled it with heavy metals including iron, lead, cadmium and zinc." (Don Moore) This station used to operate years ago on 3350 with 400 watts, but they seem to be using a new transmitter now. (Inoue Numero Uno No. 1267 April 15th)

Estacion Yurimaguas 5046.3 inactive, only heard on FM. (P. Capo M. WRTHLA via Shortwave News April)

Radio Frecuencia San Ignacio 5700 address given on the air as Jr. Villanueva Pinillos 330. (Klemetz WRTHLA via Shortwave News April)

Radio Frecuencia San Jose 5858.4 located in San Jose in Lambayeque Department, was heard until 0010 sign off on March 20th only. (Klemetz Numero Uno No. 1267 April 15th)

Radio Paucaratambo 5984.7 1000-1013 with young lady giving Spanish ID and a request for local listeners to write in. Into huaynos with male announcer doing announcements. Except for ID, all further talk in Quechua. Fair. Thanks to Dave Valko for discovering it! However, to correct Dave, I think this is Quechua, not Aymara. I believe Aymara isn't used anywhere in Cuzco Departamento (Don Moore)

Radio Oriente 6190 this regularly heard station has not been heard since April 10th. (HJ)

PHILIPPINES—9655 What appears to be a new station is operating here from 2200 with programming in English. (Padula Australian Dx News April) No further details yet. (HJ April 27th)

PIRATES—EUROPE—*International Music Radio* 6199.6 also IDs as *Voice of Basel*. This is a Swiss pirate heard before 0800 UTC Sunday. Their address is: Yves, Postlagernd, D-79547 Wein am Rhein, Germany. (Campbell Numero Uno No. 1267 April 15th)

RUSSIA — Russia's communications ministry has negatively assessed the actions by the communications enterprises distributing TV and radio signals which in February announced the possibility of broadcasting being reduced in connection with the debts owed to them by state TV and radio companies: this was stated Russia's communications minister recently. The minister stated that the debts to the communications enterprises for last year has been cleared and declared his readiness to propose new terms for the payment of the services being rendered by enterprises distributing broadcasting signals. In particular the minister Bulgak believes that it is necessary to introduce a state order system [Russian: sistema goszakaza] for state TV and radio broadcasting. The draft of the relevant government decision is already being considered in government bodies, the minister said. (BBCMS Summary of World Broadcasts No. 13 April 1st)

Radio Netherlands 7310 uses the Kaliningrad site for Dutch at 0530 sign on. Parallel 9895. (Ogrizek, Padula Australian Dx News April)

Radio Slavyanka The station's current schedule is: 0100-0300 (except Mondays) 9540 9490 9480 7390 7310 7160 4975 4940 4740. 1600-1800 (except Sundays) 12025 12015 9890 9540 7310 4975 4940 4740. All transmissions are in Russian. (BBCMS World Broadcasts Schedules No. 13 April 1st) The station is offering advertising space and can be reached via its telephone in Moscow at [+7 095] 296 6608 and 296 6847. (BBCMS Summary of World Broadcasts No. 16 April 22nd)

Deutsche Welle uses two sites for English transmissions: 0200-0250 12045 Samara 0900-0950 12055 Irkutsk (Nikolai Rudnev March 27th)

RFI broadcasts via Irkutsk: 1100-1200 Lao and 1200-1300 Khmer on 12025. (ibid.)

University Network 11840 1600-1500 via Novosibirsk (ibid.)

Radio Alfa and Omega 9865 1400-1500 via Yekaterinburg in Russian. (ibid.)

Radio Radonezh 9865 1500-1600 via Yekaterinburg in Russian. (ibid.)

Radio Alef 1600-1650 on Tuesday, Thursdays and Sundays in Russian on 4055 7305 12075 17890. (ibid.)

see CHINA

RWANDA—*Radio Rwanda* From the death of President Habyarima on 6th April, Radio Rwanda had been broadcasting solemn music interspersed with communiques and statements intermittently, on 9610 and 6055, (Also 15340 here HJ) However, as of 0930 on 13th April, the radio has not been traced was last heard at 1515 in 12th April. *Radio Mshabura*, the radio of the Rwandan Patriotic Front, also continues to broadcast and was heard on 6285 on 12th April at 1942 and now signs on with its morning transmission at 0415 or 6285. The *Deutsche Welle* relay station near Kigali is believed to be no longer operating because of power supply problems and fighting in the area. The station, therefore, has introduced additional transmissions from other transmitter sites. (BBCMS Summary of World Broadcasts No. 16 April 22nd)

ST HELENA—"A report in the *London Times* says children living on the remote island of St. Helena are to be studied by a psychologist to find out what happens to their behavior when broadcast television reaches them for the first time. The British colony in the South Atlantic, with a population of 5,500, has had access only to radio and pre-recorded videotapes, and its children are said to be among the most well-balanced in the world. The report by Jenny Knight says Dr. Tony Charlton of the Cheltenham and Gloucester College of Higher Education and a team of four researchers have gone to the island to begin a four-year study into the effects on children of a satellite television service scheduled to begin transmission in January. Dr. Charlton plans to publish his initial

findings next May, after six months of television. While video cassettes and radio are available on the island, there are no daily newspapers or, until now, live TV." (COMBROAD March via Don Moore)

SLOVAKIA—*AWR* is still not using the transmitter site at Velke Kostolany, so the Z 94 printed schedule is in error. (Radio News Bulletin March)

see CZECH REPUBLIC

SOMALIA—*Radio Mogadishu*, the pro-Muhammad Farah Aydid station has been heard variously on 6850, 6840 and 6830 rather than the regular 6970 kHz frequency and now has a morning transmission from at 0330-0500. On 9th April, the station broadcast the following announcement several times: "We ask our esteemed listeners to communicate how they hear us and address it to the central headquarters of the ministry of information and national guidance. Listeners, we request you to send a record of our broadcast in order to help us improve reception. Do not forget [to report] where you heard and recorded our broadcasts and send us final note on how we could improve the quality of the radio of the Somali people." The radio signed off at 1900, an hour later than usual. It is also noted that this pro-Aydid *Radio Mogadishu* now describes itself as the voice of the Somali people rather than the voice of the great Somali people. (BBCMS Summary of World Broadcasts No. 15 April 15th)

SWITZERLAND—*Red Cross* will broadcast in English from 0700-0730 and 1300-1330 on 6165 on May 29th, June 26th, July 31st and August 28th. (Radio News Bulletin March)

THAILAND—*Bangkok Metrological Radio* 6764.9 USB broadcasts weather for the Gulf of Thailand and adjacent seas eight times a day in Thai and English. Heard daily at 1155 with musical interval signal, then weather. The station uses an *Ambassador H-1* 1 kW transmitter into a dipole antenna. The verification signer is Mrs. Maneeroong Triyasunant and their address is: Bangkok Metrological Radio, Telecommunications Division, Metrological Department, 4353

Sukumvit Road, Bangkok 10260. (Ed Rausch April 3rd)

Unid 2574 Seemingly a harmonic of 1287. (Martin OZDX No. 90 April)

TIBET—*Xizang PBS* Chinese service, which also has some Tibetan: 2330-0645 and 0955-1550 on 9580 9490 7170 5935 5240 4750. Tibetan service: 2330-0645 0955-1550 on 11950 11765 7110 6200 5995 5950 5020 4820 4035. (BBCMS Summary of Broadcast Schedules No. 15 April 15th)

TIMOR—*RR1 Dili* 3306 has reactivated. (Tony "Ironman" Orr on special assignment for *LN* in Laos April 18th)

URUGUAY—*SODRE* is operating with only 300 watts into a dipole antenna on both 9620 6125 albeit with different programs. (Lipscombe New Zealand Dx Times March) No word on the power of 15275v which has tentatively been heard around 0300. (Dave Valko April 1st) Also around 0000. (HJ April 10th)

Radiomundo 6000 there is no chance of this outlet returning to the air. (TIN Relampago Dx March)

USA—*WRMI* The latest is that our engineers have been making lots of modifications to the transmitter in order to filter out any possible harmonics, using a spectrum analyzer to check results. They think they have the problem solved, and are ready to resume some very short (about 5-minute) tests at various times (during daytime only) in coordination with the FCC and the FAA—hopefully to start within the next few days. Meanwhile, we've been swamped with reception reports for the few days we were on the air with 50-kilowatt tests. Most of the latest ones are from the Caribbean and Latin America (including Peru, Uruguay, Argentina, Nicaragua, Puerto Rico, Venezuela, Panama, etc.), and have indicated good to excellent reception throughout the region. So we know the transmitter and antenna are doing the job they're intended for. But we're also continuing to receive lots of reports of fair, good and excellent reception throughout the U.S. and Canada, which makes North America a viable secondary target area—something we

weren't sure would be the case. The skip zone off the back of the antenna appears to go as far as Tampa/St. Petersburg (about 250 miles from Miami). We don't have a good feeling yet for the skip zone off the front of the antenna. (Jeff White April 26th)

WHSB has a new antenna project (dual-band 4x4, oriented 72 deg, ± 15 & 30) underway. *Thomcast* is the supplier—this is the resultant of the merger/purchase of *ABB* and *Thompson CSF*. (C. Ed Evans, Senior Station Manager March 28th)

Radio Free Europe The Czech language broadcasting section of this station is to move from Munich to Prague this spring as a cost-saving measure. Until the end of September 1995, it will reside in the *Czech Radio* building in Prague-Vinohrady, but the station said that sharing a building with *Czech Radio* does not constitute a merger or mutual dependence. (BBCMS Summary of World Broadcasts No. 12 March 25th)

VOA The GAO U.S. (General Accounting Office) issued a report in January entitled "*Voice of America: Station Modernization Projects Need to Be Justified*" (GAO/NSIAD-94-69). Here is the official abstract of this report: *Voice of America: "Station Modernization Projects Need to Be Justified* GAO/NSIAD-94-69, Jan. 24 (12 pages). The end of the Cold War, technological advances, and organizational changes in U.S. foreign broadcasting programs may render some of the *Voice of America's* (VOA) shortwave modernization projects obsolete before they are finished. Democracy is spreading in many parts of the world, host country media have become more reliable broadcast sources, and *VOA* and *Radio Free Europe/Radio Liberty* audiences have shrunk. By the turn of the century, direct satellite broadcasts involving high-quality signals may be available. Despite these trends, *VOA* plans to continue to build new shortwave stations and modernize existing ones. More than half of the \$900 million *VOA* plans to spend on modernization through 2003 is for shortwave projects that have not yet begun. The planned shortwave modernization projects are not supported by cost-benefit analyses". Copies of this report are available from the GAO via regular mail. Alternatively, if you have Internet e-mail access, you can

submit a request for a copy of this report (or any other GAO report) via e-mail by sending it to the address: gao@cap.gwu.edu Note that you *must* request the report by *number*, not just name. (As noted above, the number of this report is GAO/NSIAD-94-69). The GAO will mail (*NOT* e-mail) the report to you in about a month. (Ben Krepp April 1st)

V (ETNAM)—Unid 4672v Parallel 4705.8, so one of these is a spur. This is not *Son La*, which is still on 4813. (Martin, Foster OZDX No. 90 April)

Unid 5691 possibly a regional, heard at 1103. (David Clark April 2nd)

Cao Bang BS 6592 ex 6587 heard at 1100 but gone at 1208, possible schedule change. (ibid.)

Unid 6617 in last month's LN and heard by Clark last winter is probably *Cao Bang BS*. (World Radio Report Dx Ontario May)

As part of a two-year in-house training program at the *Voice of Vietnam* being conducted by ABC officials through Australia's foreign aid program, the *VoV* has been given a radio studio worth US \$150,000. This should greatly improve the technical quality of the programming. (COMBROAD March via Don Moore)

YUGOSLAVIA—*Radio Yugoslavia* 6005 heard here in Russian at 1900 but was jammed! (Groppazzi Radiorama March via Giovanni Serra)

DX PUBLICATIONS—*AVATAR* Kirk Trummel has sent out the Spring Issue of his comprehensive list of Dx stations. Kirk list is arranged by frequency but he can customize it for you. He is also willing to trade his list for other shortwave publications. Kirk's biggest advantage is that he is willing to send out an updated list quarterly for what others charge for an annual publication. This is the best Dx list on the market. Send 12 dollars to: Kirk Trummel, 1122 W. University, Springfield, MO 65807 (HJ April 18th)

DX World is a new publication produced by Navin Patel of the DX Club of India. (Radio News Bulletin March)

DX SHOWS—*Radio Educacion* 6185 has a Dx show in Spanish at Mondays 1030-1100, Thursday 0400-0430, Sundays 0600. (Contacto Dx Dx'ers Calling March)

SPEEDX will once again have a report on *Dx Party Line*. It will be hosted by Richard Hankinson and run on the first Saturday of the month. (Shortwave Radio Today April via Fred Kohlbrenner) I look forward to hearing it, Richard. (HJ)

An amateur radio operator in Wentzville, MO, Vern Jackson-WA0RCR, operates a bulletin service. It mainly is of interest to Hams, but has some reports of interest to SWLs as well. The current schedule for the Gateway Radio Newsletter is as follows: Monday-Thursday 2250-0245 (depending on time of year and material, can end as early as 2345), Tuesday 0900-1050, with International Amateur Radio Network (IARN) bulletins aired UTC Thursdays (local Wednesdays) 0017-0100. Saturday programming starts at 2030 UTC, and includes This Week In Amateur Radio on UTC Sunday (local Saturday) 0030-0200, IARN Bulletins 0200-0245, and Gateway Radio Newsletter at all other times, until sign off at 0500.

Also, the Gateway 160 Meter Net meets UTC Thursdays (local Wednesdays) at 0100 UTC. All of this takes place on 1860, operating with 350 watts non-directional. The QSL address is: Vern Jackson-WA0RCR, 2109 Ebert Lane, Wentzville, MO 63385, U.S.A. (Eric S. Bueneman April 24th)

QSL Reports

Sam Barto
47 Prospect Place
Bristol, CT 06010



ABU DHABI: Capital Radio 9770 f/d ltr. w/ schedule in 48 ds. v/s Aida Hamza. (Shepard-CT).

ANDAMAN ISLANDS: AIR Port Blair 4760 f/d cd. via New Delhi in 7 mo. on my 2nd try. (Field-MI). same in 51 ds. for \$1.00 (returned). v/s J. Pabmanabhan, Assistant Engineer. My QSL mentioned DXers Palmersheim and Howard. (D'Angelo-PA).

ANTIGUA: BBC 17840 f/d ltr. in 5 mo. for \$1.00. (Trummel).

ASIATIC RUSSIA: Radio Moscow 9780 via Nikolaevsk-on-Amur f/d "Moskva River" cd. in 6 wks. (Barto-CT). 9810 via Irkutsk f/d cd. in 2 wks. (Field-MI). 12050 via Petropavlovsk-Kamchatsky f/d cd. in 1 mo. (Field-MI). 7135 and 17655 via Komsomolsk-on-Amur f/d cd. in 1 mo. (Field-MI). 17890 and 17825 via Irkutsk f/d cd. in 1 mo. (Field MI). 12070 via Khabarovsk cd. in 2 mo. (Field-MI). KNLS 6080 via Novosibirsk prepared cd. in 1 mo. w/ ltr. confirming reception and saying that the transmitter site is now from Khabarovsk. (Trummel).

AUSTRALIA: Australian Armed Forces Radio 10848.5 via North West Cape f/d ltr. w/ tourist brochure in 10 wks. for \$1.00 (returned). v/s Adam Iffland, Presenter. (Kohlbrener-PA). VNG 8630 f/d folder cd. w/ station photo in 23 ds. for 1 IRC. (Shepard-CT). Radio Australia VLJ 11720 via Brandon f/d ltr. in 34 ds. for 3 IRCs. (Helm-KS). VLQ9 9660 f/d "Map" cd. w/ schedule and 4QR stickers in 6 wks. (Barto-CT). VLM4 4920 via Brisbane f/d cd. in 26 ds. after a f/up rpt. Schedule and stickers were rcvd. v/s Lou Swiney who says that this service had few, if any, listeners in Queensland. (Helm-KS). VLW6 6140 via Wanneroo f/d "Map" cd. in 49 ds. for \$1.00. (Comeau-MA).

AUSTRIA: Radio Austria International 9655 f/d ltr. w/ sked. in 20 ds. (Shepard-CT).

BAHRAIN: Radio Bahrain 9745 "Map" cd. in 29 ds. (McCarthy-GA).

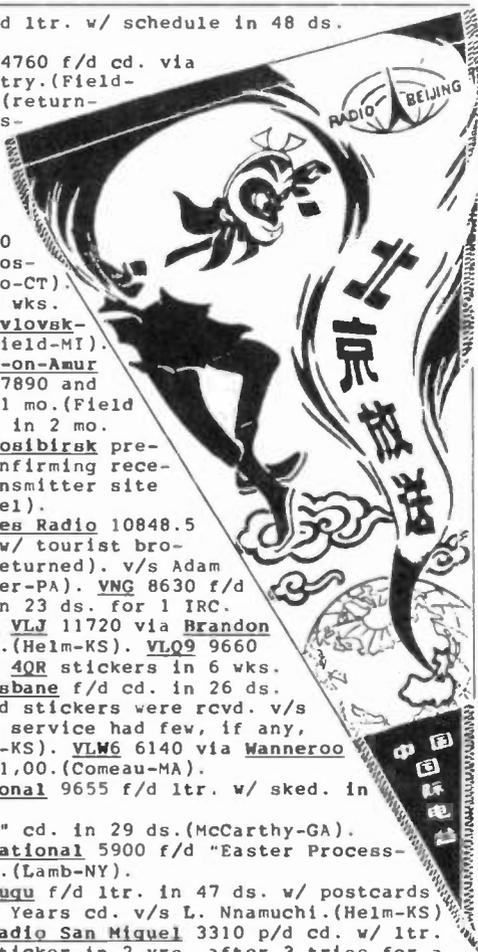
BELGIUM: Radio Vlaanderen International 5900 f/d "Easter Procession" cd. w/ schedule in 2½ mo. (Lamb-NY).

BIAPRA: Radio Nigeria 6026 via Enugu f/d ltr. in 47 ds. w/ postcards and a New Years cd. v/s L. Nnamuchi. (Helm-KS)

BOLIVIA: Radio San Miguel 3310 p/d cd. w/ ltr. and sticker in 2 yrs. after 3 tries for a SP rpt. and \$1.00. v/s Felix A. Rada O., Director. (Kohlbrener-PA). Radio Juan XXIII 4965 f/d cd. in 33 ds. for \$1.00. v/s Elias Cortezon. (Paszkievicz).

BORNEO: RRI Palangka Raya 9545 f/d cd. w/ n/d * ltr. in 2 mo. for an IN rpt. and ms. v/s Ricky D. Wader, Station Manager. (Sgrulletta-NY). same in 49 ds. for an IN rpt. and ms.

BOTSWANA: VOA 7280 f/d cd. (D'Angelo). w/ stickers in 55 ds. v/s John Vodenik. (Jarvis-CA).



中國國際廣播電台



BRASIL: Radio Canaco Nova 9675 f/d cd. in 209 ds. for a PT rpt. and \$1.00. Sticker rcvd. v/s Valeria Massafera. (Helm-KS). Radio Brasil Central 4985 p/d short personal ltr. in 196 ds. for a PT rpt. and \$1.00. after 3 f/up rpts. Stickers rcvd. (D'Angelo-PA). Radio Educacao ZYP271 3385 f/d cd. in 114 ds. for a PT rpt. and 1 IRC. v/s Diacono Thomas Schwamborn. (Helm-KS). Radio Nacional Sao Gabriel 3375 p/d ltr. in 40 ds. for a PT rpt. v/s Luiz dos Santos Franca. (Paszkiewicz).

BULGARIA: Radio Varna 5890 f/d cd. w/ personal ltr. * in 6 wks. w/ calendar. (Field-MI). Radio Moscow 7115 via Sofia f/d cd. in 1 mo. (Field-MI).
CANADA: CHU 7335 p/d cd. in 17 ds. (Shepard-CT). Radio Japan f/d cd. w/ schedule in 33 ds. for ms. v/s Kawamoto. (Jarvis-CA). CPRX 6070 f/d cd. via ODXA in 14 ds. v/s Stephen Canney. (Shepard-CT).

NOTES: Norm Newhall reports that the old FRG-7000 died peacefully last May. He splurged and bought a Drake R8. Now his wife says he may die a peaceful death some night. Hi! They are rather costly...Sam. Brian Boulden says hello to everyone. He received a few new QSLs which he had just about given up on. Hang in there...Sam. John Squilletta says he is at a lost for words with his last three QSLs. He never thought he would hear from the stations. Must be some sort of QSL disease going around...Sam. Jeff Woodard in Eureka, CA sends his best wishes to everyone. Thanks...Sam.

CHINA, PEOPLES REP. OF: Voice of Jinling 4875 f/d cd. in 27 ds. for \$1.00. Schedule rcvd. (Helm-KS). China Radio International 11715 f/d cd. w/ paper cuts and pennant in 37 ds. (Levison). f/d "Year of the Dog" cd. w/ sticker and newsletter in 21 ds. (Shepard-CT). 9655 via Shiiazhuang f/d cd. in 34 ds. w/ stickers and cut outs. (Helm-KS). CPBS-2 9775 via Haili f/d "Cloth Ornamental" cd. in 37 ds. after several f/up rpts. v/s * Yanling Zhang. (Kusalik-ALB). Honghe PBS 4928.8 via Geiliu same cd. w/ postcard of "Eastern Qing Tombs" in 37 ds. (Kusalik). Strait Broadcast- ing Station 4940 f/d cd. in 1 1/2 yrs. for 2 IRCS. (Boulden-CA). Hunan Provincial PBS 4990 f/d cd. in 14 mo. for 2 IRCS. (Boulden).

COOK ISLANDS: Tom Robertson sent his rpt. to the New Zealand Representative in Raratonga for his QSL. Use this address: The Honorable Andrew P. Needs, Deputy High Commissioner, P.O. Box 21, Raratonga, Cook Islands...Thanks!

SHILLONG
 NORTH EASTERN SERVICE
 ALL INDIA RADIO
 SHILLONG 793001

COSTA RICA: Radio For Peace International 9375 f/d cd. in 54 ds. w/ schedule. (Humenyk). TIPC Faro del Caribe 9645 p/d cd. w/ ltr. 500 watts. v/s Juan Jacinto Ochoa F., Manager. (Trummel).

0/0 No. date 27-1-84

NO:SHG/DTR/(1)/NES/VISC/00/1

CROATIA: Hrvatska Radio 7315 f/d ltr. in 415 ds. for \$1.00 and 1 IRC. (Orenstein-NY)...This may be a WHRI relay...Sam. 5920 via Zagreb f/d ltr. in 62 ds. for a FAX rpt. (Maes).

CZECH REP: Radio Prague 5930 f/d "Singing Fountain" cd. in 50 ds. (Shepard-CT).

DUBAI: UAE Radio 9605 f/d ltr. in 67 ds. for \$1.00. (Woodard-CA).

ECUADOR: HCBJ 9745, 11925, 15270 and 21455 f/d "Youth Choir" cds. in 1 mo. w/ station info. v/s Glen Volkhardt, Director of Broadcasting. (Humenyk-ONT). Radio Bahai 4950 f/d cd. in 44 ds. for a SP rpt. and \$1.00. v/s William Rodriguez. (Paszkiewicz).

Dear Mr. D'Angelo,

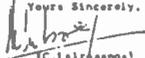
This is to confirm your reception of our transmission from the North Eastern Service on 7th November, 1983 from 17.33 to 1802 (IST). Your report tallies with our log book.

Thanks for your letter and your detailed reception report. However, All India Radio Shillong, is a separate set up. Though we too broadcast from Shillong our set up is called The North Eastern Service of All India Radio.

We focus mainly on the culture and music of the seven sister states in North East India, Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. We also have various programmes in English and Hindi. We are enclosing a brochure which you may find useful.

We were happy to hear that there was no interference in our signal. Do keep tuning in to our programmes and let us know about the quality of our transmission and programmes. Do convey our regards to Susan, Adam and Jennifer.

With regards,

Yours Sincerely,

 C. Lalit Singh
 Director.



ECUADOR: Radio Quito 4920 f/d blue and white cd. w/ stickers and a pennant in 1 mo. for a SP rpt. (Field-MI). Radio Centro 3289.8 p/d ltr. in 32 ds. for a SP rpt. and \$1.00. They used my address label. v/s Luis A. Gamboa T., Director-Gerente. (Helm). ltr. and sticker in 10 wks. for a taped rpt. (Berg-MA).

EUROPEAN RUSSIA: Radio Moscow 11980 via Serpukhov f/d "Moskow River" cd. in 2 mo. (Barto). 12070 f/d cd. w/ personal ltr. in 1 mo. (Field-MI). 15495 f/d cd. in 1½ mo. (Barto). 7150 and 5940 via Armavir f/d cd. in 1 mo. (Field-MI). 15210 f/d "Peoples Friendship House" cd. in 3 mo. (Barto-CT). 9470 f/d "Kosmos Hotel" cd. in 7 wks. (Barto). 5920 via Saint Petersburg f/d cd. in 1 mo. (Field-MI). 15265 via Samara f/d "Moskva River" cd. in 2 mo. (Barto). 15550 via Tula f/d "Alexander Pushkin" cd. in 3 mo. (Barto). 15540 via Zhigulovsk f/d cd. in 2 mo. (Barto-CT). 15175 via Tver f/d cd. in 5 wks. (Barto). 12020 via Moscow f/d cd. in 11 wks. (Barto). f/d "Lenin Library" cd. in 46 ds. (Humenyk-ONT). 7170 f/d "Kosmos Hotel" cd. in 2 mo. (Barto). 17595 f/d cd. in 5 wks. (Barto). 15190 f/d cd. in 1 mo. (Barto-CT). 15345 f/d "Moskva River" cd. in 2½ mo. (Barto-CT). Radio Alpha and Omega 9795 via Yekaterinburg f/d cd. in 3 mo. w/ sticker. (Barto-CT). Scott Helm and Mike Hardester send me the info. regarding Volgograd, the former Stalingrad...Thanks...Sam.

FERNANDO POO: Radio Africa 7190 f/d cd. in 6 wks. for a SP rpt. This was rcvd. direct from the station. (Field-MI).

FRANCE: Radio France International 5915 via Issoudun f/d "Antenna" cd. in 2 mo. w/ schedule. (Barto-CT).

GERMANY (West): VOA Munich 3980 f/d cd. in 11 ds. (Trummel). same in 6½ ds. (Helm-KS). Radio Canada International 6025 via Wertachtal f/d cd. w/ schedule in 9 ds. (Humenyk-ONT).

GREECE: VOA Kavala 9700 f/d "Washington Mall" cd. in 10 mo. (Lamb-NY).

GUATEMALA: Union Radio / Adventist World Radio 5980 f/d ltr. w/ n/d cd. in 39 ds. for a SP rpt. and \$1.00. Also rcvd. pennant and sticker. v/s Roldando Garcia, Gerente General. (Helm-KS).

HAWAII: KWHR 13625 f/d cd. in 3 mo. for \$1.00. v/s Loren Holycross. (Kohl-brenner-PA). f/d cd. in 84 ds. (Paszkiewicz). 17510 f/d cd. in 67 ds. for \$1.00. (Newhall). 9930 f/d cd. in 1 mo. w/ schedule. (Barto). f/d cd. in 2½ mo. (Trummel). f/d cd. in 2½ mo. (Lobdell-MA). f/d handwritten cd. direct from site in 1 mo. for a rpt. on their first day of broadcasting. Addr: LeSea Broadcasting Corp., KWHR Radio, "South Point", Naalehu, HI (ZIP?). v/s Douglas W. Garlinger, Director of Engineering. (Berg-MA)...Nice report...Sam.

Dear Sir,

Thank you very much for your reception report by letter plus a recording cassette. They means so much for me as station manager here. I see your reception report is correct with our station log. Nice to let your know ddI Palangka Raya Station is now operating on 9545 kilo hertz or 31,43 meters. It is a brand new transmitter which has the capacity of 50 kilowatt and produced by Nippon Electronic Company. via Sgrulletta

I manage this ddI Palangka Raya Station since November 6, 1992. Mr. Amiruddin as the former station manager has retired on the same year. I know your name and adress since 1985 or after it. For 8 years I became the station manager at ddI Srang Irian Jaya.

Mr. John Sgrulletta I thank you for the pictures and fotos you 've send me. Maybe in the near future I can do the same to you. May God bless you and your family.

Sincerely yours,



Dear Ron Howard,

We are pleased to confirm that the station you heard as **NHK Osaka**, and the details are as follows:

DATE: January 30, 1993
TIME: 11:04 ~ 11:20 (UTC)
FREQ: 3377.5 kHz
PROGRAM: Program 1

We are looking forward to hearing from you again soon.

We wish you very good reception condition.

Good DXing!

Takayuki Ishimaru
Takayuki Ishimaru
NHK, Tokyo

site in 5 wks. w/ schedule. (Barto-CT).

IRELAND: Radio Caroline 6294.8 f/d cd. in 6 wks. w/ catalog and decal. Also rcvd. info. booklet. (Barto-CT).

ISRAEL: Kol Israel 9435 f/d cd. in 52 ds. w/ schedule. (McGuire-MD). 11605 f/d "Logo" cd. w/ schedule in 31 ds. (Shepard-CT).

NOTES: Just to remind everyone that Kirk Trummel has a very interesting new publication. I have found it to be quite interesting and useful. It was mentioned along with his address in last months QSL Column. Tell him you read about it in the Journal. William Boren was quite pleased with his QSL from KJES. We don't see too many QSLs from them in the QSL Column...Sam.

JAPAN: Radio Japan f/d "Wooden Doll" cd. w/ schedule in 15 ds. (HumenyK-ONT). NHK Matsuyama 3970 2 f/d prepared cds. in 4 mo. after a f/up rpt. Also rcvd. calendar and newspaper. v/s Takayuki Ishimaru, NHK-Tokyo. (Kusalik-ALB).

TAZAKHSTAN: Radio Nederlands 7305 via Alma Ata f/d cd. in 24 ds. w/ calendar and sticker. (Helm-KS).

KOREA, DEMOCRATIC PEOPLES REP: Radio Pyongyang 11335, 9345 and 7200 f/d "Flowers" cd. w/ schedule, pennant and propaganda books in 7 wks. (Barto-CT).

KOREA, REP. OF: Radio Korea n/d "600th Anniversary of Seoul" cd. w/ schedule. (HumenyK-ONT).

LESSER SUNDA ISLANDS: RRI Mataram 3222.8 f/d cd. in 42 ds. for an IN rpt. and 2 IRCs. I sent an address label which was used. Sticker was rcvd. v/s Drs. Hamid Djasman. (Helm-KS).

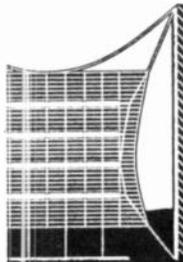
IBERIA: ELWA 4760 p/d ltr. in 17 ds. for \$1.00 and a rpt. to the NC addr. v/s Stan Bruning. (Helm-KS). ltr. in 59 ds. for \$1.00. Also rcvd. newsletter and schedule. (Comeau-MA). short sheet of paper QSL in 5 wks. w/ schedule. (Barto-CT).

MEXICO: XEPPM Radio Educacion 6185 p/d cd. in 69 ds. for \$1.00. (Paszkiewicz). p/d cd. w/ schedule in 1 mo. for \$1.00. (Jarvis-CA). XEJN

* Radio Huayacocotla 2390 f/d ltr. in EG in 39 ds. for a SP rpt. and \$1.00. Booklet was rcvd. v/s Martha Silvia Ortiz Lopez, Director of the Program: News of the Province. (Helm-KS).

MOLDOVA: Radio Moscow 17760 via Kishnev f/d cd. in 2 mo. (Barto-CT). f/d "Kosmos Hotel" cd. in 1 mo. (Barto). f/d "Peoples Friendship House" cd. in 3 mo. (Barto).

World Harvest Radio
LESEA BROADCASTING
Special Test QSL



via Lobdell
and others



KWHR - Naalehu, Hawaii
Antenna site located near South Point

MOLDOVA: Radio Moscow 17725 via **Kishinyov** f/d "Moskva River" cd. in 3 mo. (Barto-CT). 7105 f/d cd. in 1 mo. (Field-MI). 11790 f/d cd. in 7 1/2 mo. v/s Mrs. Stepanova, who sends her best to all DXers. (Berg).



RADIO MILNE BAY

(the voice of Kula)

Telephone 61 1234/01 1262
Fax number 61 1126

MOROCCO: VOA 17785 f/d cd. in 2 mo. after a f/up rpt. v/s John Vodenik. (Paszkiewicz).

16 February 1994

Reg: 14-5-4

MOZAMBIQUE: Radio Mocambique 4855.2 and 7242.5 f/d "Map" cd. in 6 wks. for a PT rpt. (Barto-CT).

Mr John L Sgrulletta
317 Bultet Hole Road
Mahopac, New York 10541
USA

NEW BRITAIN: Radio West New Britain 3235 f/d ltr. in 3 mo. v/s Esekia Mael, Provincial Program Manager. (Barto-CT). **Radio East New Britain** 3385 p/d ltr. in 3 mo. for ms. v/s Otto Malatana, Provincial Program Manager. (Rausch-NJ).

Dear Mr Sgrulletta

I read your reception report with great interest and this is to congrats to you that what you hears on the 1 January 1994 was from Radio Milne Bay.

NEWFOUNDLAND: CKZN 6160 2 f/d cds. in 6 mo. v/s Shawn Williams. (Trummel).

Our Station is located at Eastern part of PNG (see Postcard) and broadcasting on the frequency of 3365 hz in the 90 metre band.

NEW GUINEA: Radio Eastern Highlands 3395 f/d cd. in 5 mo. for \$1.00. v/s I Yanam. (Trummel).

I am enclosing our Postcard showing other Radio stations we have in our country.

NEW ZEALAND: ZLXA 3935 yellow f/d cd. w/ ltr. in about 3 wks. Also rcvd. promo cd., station brochure and folder. This was for a taped rpt. Station appreciated taped rpts. (Berg-MA).

OMAN: Radio Oman 11890 f/d cd. in 46 ds. for \$1.00 (returned). v/s Rashid Haroon. (McCarthy-GA). **BBC** 15310 f/d computer generated "Map" personal ltr. in 24 ds. for 2 IRCs. and \$1.00. v/s David J. Plater. (Newhall-CT)

PAPUA NEW GUINEA: Radio Simbu 3355 f/d cd. w/ ltr. in 53 ds. for ms. v/s Gabriel Paiao, Station Technician. (Sgrulletta-NY). **Radio Milne Bay** 3365 p/d "NBC" cd. w/ p/d ltr. and a f/d prepared cd. in 45 ds. for ms. v/s Raka Petuely, Programme Officer. (Sgrulletta-NY).



PERU: Radio Frecuencia San Ignacio 5700 f/d ltr. This was for \$1.00. v/s Franklin R. Hoyos Condor, Director General. (D'Angelo-PA). **Radio Naylor** 4300 "Logo" cd.

w/ long ltr. in 10 wks. for a taped rpt. v/s Juan Jose Grandez Vargas, Director-Gerente. (Berg-MA). **Radio Melodia** 5995 p/d ltr. in 3 wks. for a SP rpt. and \$1.00. Also rcvd. sticker, calendar and pennant. v/s Elva Alvarez de Delgado, Jefa Administracion Personal y Financiera.

PHILIPPINES: VOA Tinang 15425 f/d "50th Anniversary" (Kohlbrener-PA). cd. in 10 mo. (Lamb-NY).

PORTUGAL: Radio Portugal n/d "Old World Map" cd. w/ schedule and sticker.

* (Humeny-ONT). **Voice of Orthodoxy** 9670 via **Sines** 2 f/d prepared cds. w/ ltr. in 80 ds. for 2 IRCs. v/s Valentin Korelsky, General Secretary. Schedule and info. sheets were rcvd. (Kusalik-ALB).

Bill Boren

ROMANIA: Radio Romania International 9690 f/d cd. w/ schedule and a personal ltr. (Humeny-ONT).

Name:

Confirming Reception Report

Date: Feb 10, 1994

Time: 2000 to 2100

U.T.C.

Freq. 15545

9690, 7195, 9750, 7225 and 11940 f/d "Roman Athenaeum" cd. in 2 mo. (Barto). **Radio Romania Actualitatea** 7225 via **Tan-cabesti** ltr. w/ cd. in 2 mo. (Barto-CT).

Thank you for your letter!
God Bless & Keep you!
M. Rank

✶ RADIO KJES Q S L ✶
King Jesus Eternal Savior
50 KW SW
The Lord's Ranch
Mesquite, New Mexico 88048 USA.
New Los Cruces

RUSSIA: Radio Moscow 11980 f/d cd. w/ schedule in 35 ds. (Shepard-CT). 7165 "Pushkin Monument" cd. in 78 ds. w/ schedule. (Levison-PA). 17760 cd. in 70 ds. (McCarthy-GA).



RADIO SAN GABRIEL: LA VOZ DEL PUEBLO AYMARÁ
EMISORA DEL ARZOBISPADO DE LA PAZ - DIRECCION POR LOS HERMANOS DE LA SALLE

CERTIFICADO

RADIO SAN GABRIEL CERTIFICA QUE, EL SR: RICHARD A. D'angelo, SINTONISO NUESTRAS EMISIONES, CON LAS SIGLAS CP-63, FRECUENCIA 6080 KHZ., BANDA DE 49 METROS, EN ONDA CORTA, EN LOS IDIOMAS AYMARÁ QUECHUA Y ESPAÑOL; DE HRS: 09:15 A HRS: 09:50 EN FECHA: 12 DE DICIEMBRE DE 1992.



6080 KHZ - (Módulo) José Canut Sandoval, fco. DIRECTOR GENERAL

RUSSIA: Radio Aum Shirikiyo p/d cd. in 3 mo. (Trummel).

SAINT HELENA: ZHH Radio Saint Helena 11092.5 cd. w/ form ltr. in 3 mo. (Berg-MA). f/d cd. w/ info. sheet in 3½ mo. for \$1.00. v/s Tony Leo. (Trummel).

SAIPAN: KHBT 9425 f/d cd. in 42 ds. v/s A. Hgis-aio. (Humenyk-ONT). 9530 f/d cd. in 125 ds. w/ schedule. (Humenyk-ONT).

SARAWAK: Radio TV Malaysia 4835 via **Kuching** f/d cd. in 53 ds. for \$1.00. &

an address label(used). (Helm-KS). 7160 f/d cd. in 5 wks. (Harto-CT).
SERBIA: Radio Yugoslavia 9580 p/d cd. w/ schedule and sticker in 333 ds.
SINGAPORE: BBC 11750 f/d "Antenna" cd. in 47 ds. for 2 IRCs (Lane). and \$1.00. (Newhall-CT). **Radio Singapore International** 9535 via **Kramli** f/d "Greetings from Singapore" cd. in 35 ds. for 1 IRC. Personal ltr. rcvd. and decal. v/s Lee Wai Meng. (Flynn-OR).
SLOVAKIA: Adventist World Radio 7115 f/d cd. in 7 wks. for \$1.00. v/s Iris Manuela Brandl. Schedule and a pennant rcvd. (Kohlbrenner-PA). 7270 cd. in 10 wks. via the **Rimavska Sobota** site. (Lobdell). 11610 f/d cd. in 13 ds. for 1 IRC. w/ personal ltr. and schedule. (Flynn).
SOUTH AFRICA: Channel Africa 15240 f/d "Durban Resort" cd. w/ sticker and schedule in 40 ds. (Humenyk-ONT). 7230 f/d cd. in 102 ds. for ms. * Jarvis-CA). **Radio 2000** f/d cd. in 22 ds. (Shepard-CT).
SPANISH MOROCCO: VOA 15410 via **Briech** f/d prepared cd. in 28 ds. (Kusalik-ALB)...Has anyone anything definite on this site? Is it Morocco or Spanish Morocco?...Sam. (Lamb-NY).
SRI LANKA: VOA 15250 f/d "Murrow Transmitting Station" cd. in 1 mo.
SUMATRA: RRI Jambi 4925 f/d ltr. in 3 mo. for an IN rpt. (Field-MI).
SWAZILAND: Trans World Radio 11740 f/d folder in 38 ds. for 2 IRCs. v/s Mrs. L. Stanopoulos. (Jarvis-CA)...Does she have a relative that works with Big Bird?
SWEDEN: Radio Sweden International 15240 f/d "Sweden Calling DXers" cd. in 29 ds. (Shepard-CT). via **Horby** f/d "Goteborg" cd. in 24 ds. (Humenyk-ONT).
SWITZERLAND: China Radio International 3985 via **Lenk** cd. w/ paper cuts and schedule in 5 wks. (Barto-CT).
TANZIER: VOA 6005 f/d "Cherry Blossom" cd. in 6 mo. (Lamb-NY).
THAILAND: Bangkok Metrological Radio 6764.9 f/d prepared cd. w/ personal ltr. in 1½ mo. for a taped rpt. and \$1.00. v/s Mrs. Maneeroong Triyasunant. (Rausch-NJ). **VOA** 9680 f/d cd. in 35 ds. (Paszkwicz).
TURKEY: Voice of Turkey 9445 f/d cd. in 52 ds. for \$1.00. (Woodard-CA). **Turkish State Meteorological Service** 6900 p/d form ltr. in 27 ds. for 1 IRC. v/s Mehmet Ormeçi, Director General. (Flynn-OR). **Turkiye Polis Radyosu** 7370 f/d cd. in 46 ds. for 1 IRC. Mini poster was rcvd. (Flynn-OR).

EMISSORA NACIONAL DE RADIODIFUSÃO
 B.U.L. DO QUELHAS, 8 LISBOA - PORTUGAL
 EMISOR REGIONAL DOS AÇORES
 PORT. TELECOMUNICAÇÕES

RDP Açores Relay

AGRADECEMOS E CONFIRMAMOS AS VOSTRAS INFORMAÇÕES

We gratefully acknowledge and correct your
 Nous remercions et confirmons vos informations

DE ESCUTA DA NOSSA EMISSÃO DE
 report concerning our broadcasting of 1.24.69
 de sujet de notre emission de

NA BANDA DE METROS
 in the 63 m. band
 dans la bande de metres



George Eitneck
 273 Peckover's Rd.
 Buffalo 20,
 NEW YORK
 U. S. A.

UKRAINE: Radio Moscow 4860 and 4795 f/d **Kharkov** cd. in 3 mo. (Barto). 4825 and 4860 f/d cds. in 1 mo. (Field-MI). 7165 via **Kiev** cd. in 1 mo. (Field-MI).

Хабаровск
Министерство Связи (Справочник)
Генеральный Инженер А. Копин,
А. Сперсо,
инженеры И. Пыман, А. Морозов,
Э. Козюкович
Амурском
Мемориал (Город 10 (Саммит))
Секретарь И. Воронин, А. Емелья,
А. Чибриков,
инженеры Н. Руденко, А. Мотаров,
И. Мухометов

Ron Howard

Jan 2003
 URS 10 min

Your report
 of April 18,
 1992 is correct.

9560 kHz 07.51 to 09.12 UTC

Viktor Akhterov, FEBC

UKRAINE: Radio Moscow 7180 via **Simferopol** f/d cd. in 1 mo. (Field-MI). f/d "Kosmos Hotel" cd. in 6 wks. (Barto). 15380 f/d "Alexander Pushkin" cd. in 9 wks. (Barto). f/d "Moskva River" cd. in 7 wks. (Barto). f/d "Peoples Friendship House" cd. in 3 mo. (Barto). **Radio Ukraine International** 7195 f/d cd. in 125 ds. (Levison-PA).

URUGUAY: Radio Monte Carlo 11735 f/d prepared cd. in 14 mo. Thanks to Japanese DXers Nozaki who hand delivered rpt. (Kohlbrener-PA).

USA: WYPR 5985 f/d cd. w/ schedule and stickers in 3 mo. (Grenier-NV). **Voice of Free China** 5950 via **WYPR** f/d cd. in 52 ds. w/ schedule and pennant. (McGuire-MD). **KJVS** 11715 f/d cd. in 3 wks. (Barto-CT). **La Voz de la Fundacion** 9850 via **WHRI** f/d cd. in 2 mo. (Barto). **WINB** 11950 f/d cd. w/ schedule in 44 ds. (Humenyuk-ONT). **WMLK** 9465 f/d form ltr. in 87 ds. for 2 ms. (Newhall-CT). **WWCR** 7435 n/d cd. w/ schedule in 54 ds. for \$1.00. (Newhall-CT). **VOA** 5860 (unknown site?) f/d cd. w/ stickers and a personal ltr. v/s John Vodenik. (Lamb-NY).

USA (Pirates): WGBR / Christian Rock Radio 7416 2 page form ltr. in 3 wks. for 3 ms. (Lobdell-MA). **Radio Titanic International** 7412 and 7415 2 f/d cds. in 6 wks. for \$1.00. This was via a **NAPRS** relay. (Lobdell-MA). **WREX / Radio Free East Coast** 7465 f/d postcard in 5 wks. for \$1.00. (Lobdell). **Radio Airplane** 7445 QSL# 162 in 30 ds. for 3 ms. Sticker was rcvd. **CRSM** 7470 sheet in 47 ds. for 3 ms. (Arey). **Radio UNID** 7445 mini-QSL cd. in 45 ds. for a rpt. in ACE. (Arey-NJ). **Voice of Laryngitis** 1610 f/d cd. w/ sticker in 3 wks. for ms. (Kohlbrener). **K2000** f/d ltr. in 2 wks. for 3 ms. **Liberty!** 7416 f/d mimeo ltr. in 5 wks. for 3 ms. (Lobdell). **Jolly Roger International** 7465 p/d ltr. in 86 ds. for 3 ms. (Comeau-MA). same in 3 mo. for ms. (Kohlbrener-PA). f/d ltr. in 89 ds. for ms. 1000 watts (D'Angelo). **WPIG** 7415 sheet in 22 ds. for 3 ms. (Comeau-MA). **Radio Free Euphoria** 7474 f/d ltr. in 24 ds. for 3 ms. (Flynn). **Radio Doomsday** 7479 f/d cd. in 32 ds. for ms. Pennant rcvd. (Comeau). 7445 f/d cd. w/ poster and pennant in 1 mo. Also rcvd. tape of the show! (Trummel).

QSL VERIFICATION

RADIO STATION **Voice of Broad Masses of Eritrea**
 TRANSMITTING FROM: **ASMARA - ERITREA**

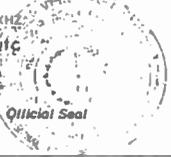
Dear MR. **CIRIS LOBDELL**

We confirm with pleasure your reception report which conforms to the programs we broadcast. **THANK YOU.**

FREQUENCY: 7020 kHz
 Date: 11.2.92 Time: 0349-0449 UTC

LANGUAGE: **KUNAMA & TIGRIGEA**

Signature



UZBEKSTAN: Radio Moscow 17610 via **Tashkent** f/d cd. in 1 mo. (Field). **VATICAN: Radio Vatican** 3945 and 6245 f/d "Antenna" cd. w/ schedule in 3 wks. (Barto). **VIETNAM: Hanoi National Service** 5924.5, 4894.7, 10060.5 and 4960.0 f/d cd. in 11 wks. (Barto-CT).

Radio Miami International



via Rich D'Angelc

P.O. Box 526852
 Miami, Florida 33152 USA
 Tel. (305) 267-1728

This QSL card verifies your reception of Radio Miami International. Esta tarjeta QSL verifica su recepción de Radio Miami Internacional.

So much for yet another QSL Column. Hope to hear from all of our members next month.

Date/Fecha: 11 November 1991 UTC
 Time/Hora: 0200-0300 UTC
 Frequency/Frecuencia: 7355 kHz
 Via: New Orleans

Sam

Jeff White

Tropical Band Loggings

Sheryl Paszkiewicz
1015 Green Street
Manitowoc, WI 54220



New - Tropenbandliste (TBL) from Willi Passmann, well known German DXer and editor for the ADDX. Covers 2-7MHz with more than 1300 entries. Part A sorted by freq & subdivided by continents/countries. Part B sorted by country & output power. Very well done publication, comes out 4x/year. Cost which I think is for one issue is 20 DM within Europe or 30 DM airmail to U.S. More details & special year subscription rates, write Willi at Oberhausener Str. 100, D-45476 Mülheim-Ruhr, Germany.

Hear Ye, Hear Ye - DX Daily Special - Make 3 calls to DX Daily, 900-656-5455 from April 20-May 31 and get free DX Daily Coffee Mug. Just mail a copy of your paid long distance statement to DX Daily Free Mug Offer, Box 221381, Louisville, KY 40252-1381. Offer expires June 30.

- 172Jh DOM REP Clarin 3/4 0110 ID, pops 2x860, tnx Valko (Alex.)
212Jh HONDURAS LV de Centroamerica 4/9 0315 ID, ads 2x1060 (Moore)
231) AUSTRALIA VL8A 3/2 1315 pops (Brown-MO) 3/28 1050 oldies
Everly Bros (Rippel-VA) 3/6 1044 phone interview, ID, TC
ABC nx (Clar-NY)
2325 AUSTRALIA VL8T //above (Brown-MO) 3/28 1110 US pops //above
(Rippel-VA)
2360 GUATEMALA R Maya 3/4 1135 Bible reading (Brown-MO)
2390t GUATEMALA LV de Atitlán 4/2 0338 march, class mx, tlk abt
Guatemala (Lawrence-NY) 1131 ballads, rancheras (Clar-NY)
2410 NEW GUINEA Enga 3/5 1140 radio play, best in season (Clark)
3/28 1100 ID, nx (Rippel-VA)
2460 BRAZIL Alvorada 4/10 0936 interviews, ID, mx bridges (Moore-MI)
tent 3/13 0300 tlk, low mod (Maywoods-KY)
2490 BRAZIL Oito de Setembro 4/9 2352 Brasopops, poor (Moore-MI)
3200 SWAZILAND THR 4/3 0359 string IS, EG ID, into GM (Brown-MO)
3204.4 JAVA Bandung 3/7 2245 tlk, SCI, Jak nx (Clark-ON)
3205 BRAZIL Ribeirao Preto 4/9 2355 OM anmts, ballads (Moore-MI)
3205 NEW GUINEA W Sepik 4/5 1147 PNG pops, watery audio (Brown-MO)
4/2 1100 tlks, best PNG hrd (Lawrence-NY)
3210 ECUADOR HCJB 2/27 2352 Quechua tlks, good (MacHarg-ECUADOR)
3210 NEW GUINEA R Morobe 4/5 1202 choral mx, fading (Brown-MO)
3210 SOUTH AFRICA Channel Africa 3/29 0358 EG TC, ID, nx (Lamb-NY)
3/30 0400 EG nx, IDs (Pickard-IL)
3212.1 TOGO R Kara 4/2 0528 IS, NA, Ici Kara (Brown-MO)
3214.9 SUMATRA Tanjung Pinang 3/7 2305 Jak nx, fading (Clark-ON)
3210 SOUTH AFRICA R Oranje 4/3 0408 tool ads, fax QRM (Brown-MO)
3/29 0405 EG/AK pops, Elton, bilingual ads, IDs (Lamb-NY)
3215 NEW BRITAIN RWNB 4/5 1135 w/folk mx (Brown-MO) 3/5 1230 w/
Beatles "Get Back" then sing-sing (Clark-ON)
3245 NEW GUINEA R Gulf 3/5 1203 mx, EG anmts, hum (Clark-ON)
3219.8 KALIMANTAN Banjarmasin 3/7 2230 OM tlk surpris good (Clark-ON)
3249.9 HONDURAS Luz y Vida 3/3 1137 good w/hymns (Brown-MO) 3/13 0310
Bible Hour (Maywoods-KY)
3215 LESOTHO BBC 3/30 0430 EG sports nx (Pickard-IL) 3/13 0305
EG nx (Maywoods-KY)
3210 NEW GUINEA R. Madang 4/5 1140 PD tlk, fair (Brown-MO)
3210 ECUADOR Ecos del Oriente *1025 NA, ID, Andes mx (Urbelis-NY)
3/3 1145 fair w/huayños (Brown-MO)
3230 ECUADOR LV del Napo 1015 SP Bible pgms (Urbelis-NY) 3/1 0125
mx, soccer rpt (MacHarg-ECUADOR) 3/3 1140 long tlk (Brown-MO)
3215 KALIMANTAN Samarinda 3/7 2230 threshold audio (Clark-ON)
3290 ECUADOR R Centro 1015 IDs, TC, ads, anmts (Urbelis-NY) 2/28
0015 good sig (MacHarg-ECUADOR) tent 3/13 0304 SP (Maywoods)
3300 GUATEMALA TGNA 4/3 0134 w/EG rel pgm (Brown-MO) 4/13 1000
ID, tlk abt matrimony (Robinson-TN) 3/21 0148 EG hymns, rel

Unshackled (Lamb-NY)
3305 NEW GUINEA R Western 3/5 1139 C&W, powerhouse (Clark-ON)
3316 SIERRA LEONE SLBS 4/5 0611 OM in lang (Brown-MO)
3324.8 GUATEMALA Maya 2/26 1115 rel tlk, IDs (Clar-NY)
3325 BRAZIL Tupi 4/9 2358 anmts, ID, into pops, new for me (Moore)
3330 CANADA CHU 3/27 1021 noted off air today (Clark-ON)
3330.3t PERU Ondas del Huallaga 3/16 0430 tlks, LA mx (Lawrence-NY)
3335 NEW GUINEA R East Sepik 4/5 1137 long tlk in PD (Brown-MO)
3335 TAIWAN BCC 4/3 1051 class mx, TP, ID, nx (Clark-ON) 1301 CH
mx, trumpet, nx in listed Hakkah (Brown-MO)
3340 PERU Altura tent 3/16 0450 tlks, Andean mx (Lawrence-NY)
3/6 1015 tlk, ads, sfx, IDs, TCs (Clar-NY)
3355 NEW GUINEA R Simbu 4/5 1150 best ever sigs (Brown-MO)
3356 BOTSWANA RB 4/3 0417 good w/EZL mx (Brown-MO) 4/2 0341 EG
pop mx, tlks (Lawrence-NY) 4/6 0335 EG/lang Pink Floyd, ID
nx (Rausch-NJ)
3360 GUATEMALA LV de Nahualá 3/26 1100 IDs, campo mx (Robinson-TN)
2/26 1127 ID, anmts, lively LA mx (Clar-NY)
3366 GHANA GBC 4/10 0006 EG nx //4915 (Moore-MI) 4/10 2342 EG pops
tlk abt hunger, choir, TC, ID, Rwanda nx (Lamb-NY)
3375 BRAZIL RN Sao Gabriel 0905 ads, IDs, rancheras (Urbelis-NY)
3375 NEW GUINEA R West Highlands 4/5 1145 good w/reggae (Brown-MO)
4/11 0038 Braz pops, IDs, ment Cachoeira (Lamb-NY)
3395 NEW GUINEA R. East. Highlands 4/5 1141 south seas mx (Brown-MO)
3578.3 MOLUCCAS RSPKDT2 Masohi 3/20 1114 tlk, band mx, OM tlk, no
Jak nx 1200, prob 1 kW, tnx Foster (Clark-ON)
3880 UNID suspect R United Bougainville 3/26 1115 fair & 3/27 1030
vy low audio mod (Clark-ON)
3905 IRIAN JAYA Merauke 3/5 1204 dominating PNG (Clark-ON)
3925 JAPAN R Tanpa 4/2 0830 JP tlks, Carole King mx (Lawrence-NY)
3/28 1120 JP OM tlks (Rippel-VA)
3934 UNID poss Indo 4/3 1128 distorted tlk, mx, Semarang? (Clark)
3940 HONG KONG RTV not hrd here but hrd by a Japanese DXer 4/1
per RJMR (Clark-ON)
3945 VANUATU RV 3/6 to 1002* rel svc, prayer, hymns, ID (Clar-NY)
3985 SWITZERLAND SRI 4/5 0615 EG w/Dateline (Brown-MO)
3995 WEST GERMANY DW 4/5 0132 fair w/lite class mx (Brown-MO)
4010 KYRGYZSTAN Kirgыз R 3/18 to 1900* ID, class mx, (Ryan-THAILAND)
4012 PERU Frecuencia Popular 4/10 1007 folk, TCs, anmts (Moore-MI)
4370 CLAND Vo Iranian Kurdistan 3/22 0217 mx, ID 0230, "Ayra Dangi
Kurdistan Irana" (Johnson-MD)
4505 PERU Horizonte 4/9 0931 huayños, ID, Amanacer Andino pgm
greetings (Moore-MI)
4510 PERU Paucartambo 4/9 1035 ID, huayños, fading (Moore-MI)
4606.4 IRIAN JAYA Serui 3/26 1108 ME mx, ID, string IS, nx (Clark-ON)
4712.6 BOLIVIA Abaroa 3/26 1008 lcl vcls, ID, FC, good morn (Clark-ON)
3/3 1012 vcls, flutes, IDs, TCs (D'Angelo-PA)
4697.3 JAVA RKIP Surabaya 3/5 1205 Jak nx, anthem (Clark-ON)
4725t MYANMAR Vo Myanmar 3/13 1120 monotone tlks (Lawrence-NY)
4732.5 BOLIVIA La Palabra 3/23 0017 IDs, pan flute, tnx Jones (HJ-MD)
4740p TAJIKISTAN R Yunost 3/6 *0000 RS tlk, pop //7100 (Alexander)
4746.7 PERU Huanta 2000 1020 ID, ads, mx, anmts, poor (Urbelis-NY)
3/11 1030 orch NA, echo anmts, Andean vcls, TC (Davenport-TN)
4753.4t SULAWESI Ujung Pandang 4/2 1115 lang tlk, folk mx (Lawrence)
3/24 1340 booming sig w/SCI (D'Angelo-CA)
4750 TIBET Xizang PBS 3/13 1135 tlk, TP, ID (Maywoods-KY)
3/7 2250 SCI, nx, tlks (Clark-ON) 3/4 1200 IS (Brown-MO)
4753.8 BRAZIL Rdf Maranhao 0830 Brasopops, IDs, ads (Urbelis-NY)
4755 BRAZIL R Educaçao Rural 0905 rancheras, ID, anmts (Urbelis-NY)
tent 3/31 1211 PT tlks (Grenier-NV) 4/4 0233 gaucho mx, Braz
pops, ID jingle (Lamb-NY) 4/9 0205 poss phone ins, pops & folk
ID 0305 (Moore-MI)
4760 ANDAMAN Port Blair 3/6 2359 IS, SC mx, weak (Clark-ON)
4760 LIBERIA ELWA 3/2 2003 EG song, ID, sermon (Serra-ITALY) 3/14
0711 EG Back to the Bible (Davenport-TN)
4765 BRAZIL Integraçao 0905 rancheras, IDs, ads (Urbelis-NY) 4/13
0155 tent agitated sounding anncr, slow jazz (Peck-NY)
4770 ECUADOR Centinela del Sur 3/9 0200 ballads, TC, (Davenport-TN)
2/27 2333 mx, tlk, poor (MacHarg-ECUADOR) Tnx Ken! 3/11 0230
ID, tlks (Maywoods-KY) 3/4 to 0334* pops, ID, NA (Alexander)
4770 NIGERIA Kaduna 4/8 to 2301* EG nx, NA, fair (Moore-MI)
4775 PERU R Tarma 1030 Andes mx, ads, TC, IDs (Urbelis-NY) 3/11

1100 ID, echo anmts, Andean vcsls, ute QRM (Davenport-TN)
4779.8 DOM REP Onda Musical 3/12 to 0302* ads, jingles, rancheras, ballads, IDs, NA, fair (Alexander-PA)
4783 MALI RTV Malienne 3/10 2320 Afr mx, FR tlk, ID (Davenport-TN)
4785 COLOMBIA Ecos del Combeima 3/11 0010 echo tlk, ment Caracol, ballads (Davenport-TN) 4/10 0010 Super net nx //6065 (Moore-MI)
4788.9 SOUTH VIETNAM Gia Lai 4/2 1106 tlk, orch mx, stable (Clark-ON)
4789.7 IRIAN JAYA Fak Fak 1259 ID, no IS, nx (Brown-MO)
4790 PERU Atlantida 3/6 1006 ID, slogans, TC, Andean mx (Clar-NY)
4792 ECUADOR LV de los Caras 3/3 1153 HC vcsls, canned ID (Brown-MO)
4795 BRAZIL R Aquidauana 3/11 0037 rel echo tlk, poor (Davenport-TN) 3/24 0856 guitar, IDs, jingles (Lamb-NY) 4/9 0859 ID, OM anmts, fair (Moore-MI) I still need this one--sp.
4799.8 GUATEMALA Buenas Nuevas 3/30 0200 ID, accordion (Pickard-IL) 3/12 to 0332* ID, choral mx, organ mx (Alexander-PA)
4800f CUBA Rebelde 4/9 0757 8x600 //600, good sig (Moore-MI)
4800 LESOTHO RL 4/10 0325 EZL, rel tlk, organ mx (Peck-NY)
4801 PERU Onda Azul 4/10 1029 folk mx, TC, ment Peru (Moore-MI)
4804.5 PERU R Villa Rica 1030 lcl info, det. ID, Andes mx (Urbelis-NY) 4/10 1033 health clinic ad, rooster, TC, ID (Moore-MI)
4810 ARMENIA Yelevan 3/19 1845 AR/Farsi chant, ID, IS, nx (Serra)
4810 PERU San Martin 4/11 1056 ID Agropecuaria Oriente ad (Moore)
4810 SOUTH AFRICA R 2000 3/28 2200 ID, "I'm in the Mood for Love" (Robinson-TN)
4813 3v VIETNAM Son La ex-4966 4/2 1217 tlks, mx //6329 (Clark-ON)
4817 8v MAURITANIA ORTM 3/4 2330 AR mx, tlk, on late for Ramadan (Alexander-PA)
4820 HONDURAS HRVC 4/10 0250 EZL, tlk, QRM (Peck-NY) 3/10 0145 Revival in America pgm, IDs (Davenport-TN)
4824 5 PERU LV de la Selva 1030 lcl info, IDs, nx, ads (Urbelis-NY) 3/12 0930 mx, OA vcsls, echo anmts, huayños (Davenport-TN)
4825 BRAZIL Cancao Nova 3/18 0527 pops, tel tlk, rosary (Serra) 4/9 2302 rel tlk, bits of Hallelujah Chorus (Moore-MI)
4825 MAURITANIA ORTM 2145 guitar & Arab mx, always switching freqs (Urbelis-NY) 3/11 2245 AR mx, tlk, ID (Maywoods-KY)
4830 BOTSWANA RB 3/9 0420 pops, lang, tent ID (Davenport-TN)
4830 VENEZUELA Táchira 3/28 0000 IDs, dedications (Robinson-TN) 4/13 0205 pops, choruses, ID 0207, ads (Peck-NY) 3/10 0400 anmts, TC, ballads (Davenport-TN) 4/2 0330 ballads, ID (Pickard-IL)
4835 AUSTRALIA VL8A 4/5 0815 fair w/same as 4910 (Brown-MO)
4835 GUATEMALA Tezulutlán 4/10 0243 marimbas, greetings (Peck-NY) 3/12 0136 ID, rel tlk (Davenport-TN) 4/9 1111 excerpt from Hallelujah Chorus, marimbas, Kekchi anmts (Moore-MI)
4840 VENEZUELA Valera 3/12 0930 ballads, echo anmts (Davenport-TN)
4845 GUATEMALA Kekchi 1146 IDs, ment Copan, soft mx (Clar-NY)
4845 MALAYSIA RTM 3/11 1015 Asian pops, tlks, tent ID (Davenport-TN) 3/19 1150 Tamil tlk, SC vcsls, also 2254 to TP, nx (Clark-ON)
4845 MAURITANIA ORTM 3/10 0430 AR mx, Koran (Davenport-TN) 3/26 0639 AR Koran (Grenier-NV) 3/22 2316 AR singing, nx? (Lamb-NY)
4845 MOLUCCAS Ambon 3/27 1215 ID, echo ads, low audio (Clark-ON)
4855 BOLIVIA Centenario 4/11 0957 rel, ID, music box-like bridge prayer, ute QRM (Moore-MI)
4865 COLOMBIA LV del Cinaruco 3/28 0030 ID, coffee ad, sound of katydids & crickets (Robinson-TN) 3/10 0010 echo anmts, ment Caracol, ballads (Davenport-TN) 4/7 0533 world nx, mx bridges ment Caracol (Robertson-CA) 4/13 0215 play by play sports nx fair (Peck-NY)
4870 BENIN ORTB 3/2 0510 Afropops, FR ID, fair (Serra-ITALY)
4870 ECUADOR LV del Upano 1105 rosary, sermon, Bible pgm (Urbelis)
4871.1 IRIAN JAYA Wamena 3/5 1225 Koran seemed //7173 (Clark-ON)
4875 CHINA Vo Jinling 3/24 1153 CH folk mx (Grenier-NV)
4880 BANGLADESH RB 4/4, 1152 sig rising w/SC vcsls, ute QRM gone by 1217 (Brown-MO)
4885 BRAZIL Clube do Para 3/24 0839 tlk, ads, IS, canned IDs, disco "Over the Rainbow" (Lamb-NY) can't imagine it--sp
4885 BRAZIL unid 4/8 2344 2-3 Brazilians mixing here, one w/futbol one w/ad for stuff for cattle ranchers w/MOOS (Moore-MI)
4885 COLOMBIA Ondas del Meta 3/10 0330 tlks w/lcl flair, LA mx Caracol promos, TC, ad (Davenport-TN)
4890 PAPUA NBC 4/10 1130 ID, Cher, tlk abt record sales (Robinson) 4/10 1050 Karai svc, 9675 not hrd, rock, ID, nx, wx (Rausch-NJ)

4890 PERU Chota 3/11 0141 tlks, nx, tent ID (Davenport-TN)
 4895 SARAWAK Kuching 3/16 1220 vcIs, nx (Brown-MO)
 4895.7 PAKISTAN RP 3/27 1556 Urdu/EG chant, ID, TP, nx/cmtry (Serra)
 4902 SHRI LANKA SLBC 4/5 1229 flute IS, Sinhala pgm (Brown-MO)
 4904.5 CHAD RNT 3/17 0511 FR Afropops, political nx (Serra-ITALY)
 3/9 0435 hilige, FR info, fair (Davenport-TN)
 4910 AUSTRALIA VLBC 4/5 0815-0828 w/ABC nx, pops, wx (Brown-MO)
 4910 INDIA Jaipur 3/27 1615 Urdu tlk, chants, ID (Serra-ITALY)
 3/4 1304 SC vcIs, weak & rising (Brown-MO)
 4910 ZAMBIA ZNBC 4/3 0428 EG OM, IS w/drums, birdcall (Brown-MO)
 3/9 0340 nx, tent ID (Davenport-TN)
 4910.5 HONDURAS LV de Mosquitia 4/3 0225 EG rel, EG/SP ID (Rausch-NJ)
 3/22 0200 strong but undermod (Johnson-MD)
 4915t BRAZIL Anhanguera 3/22 PT vcIs, IDs (Grenier-NV)
 4915t COLOMBIA Armonias del Caqueta 1155 tlk ment Florencia (Grenier)
 4915 GHANA GBC-1 3/24 1823 EG nx, stocks, ID, TC, lang (Serra-ITALY)
 4915 PERU R Cora 1020 mx, ads, ID, TC (Urbelis-NY) 3/25 0350 tangos
 ballads, IDs, wish could've hrd better (Pickard-IL)
 4919.9 ECUADOR R Quito 3/9 0419 promo, nx, ID, fair (Serra-ITALY)
 3/3 1145 tlks, vy good (Brown-MO) 2/27 2309 folk mx //760, no
 anmts, good (MacHarg-ECUADOR)
 4920 INDIA Madras 3/3 1248 Hindi chants (Brown-MO)
 4925 SUMATRA Jambi 4/3 1155 mx, ads, IS, ID (Rausch-NJ) Nice--sp.
 4930 DOM REP Barahona 4/11 0932 trop mx, ID, req rpts (Moore-MI)
 4930.6 HONDURAS R Internacional 4/16 0330-0500* rel, full ID,
 request rpts, also ID as Emisora de las Estrellas, addr Apdo
 1473, San Pedro Sula, s/on 2300 (Rausch-NJ)
 4935 PERU R Tropical 1020 rooster, ads, IDs, TC, mx (Urbelis-NY)
 4947.5 BRAZIL 4/9 0804 choral mx, rel tlk, canned ID, good (Moore-MI)
 what station, Don? Emiss. Rural Petrolina?--sp
 4955 BRAZIL Marajoara 3/24 0824 echo anmt, canned ID (Lamb-NY)
 4955 PERU R Cultural Amauta 0201 poor w/mx, tlk (MacHarg-ECUADOR)
 4959.2 VIETNAM VoV 3/14 1200 tlk, poor, tent ID (Davenport-TN)
 4961 ECUADOR R Federaci6n 3/11 0141 rapid tlk, echo nx (Davenport)
 3/4 0106 IDs, flutes, strong (Brown-MO) 4/9 1107 twanging
 rubberband type HC mx, Indian lang, pasillo (Moore-MI) 1/27
 2308 Shuar tlk, fair (MacHarg-ECUADOR)
 4965 BRAZIL the other Alvorada 4/9 0857 ID, fair (Moore-MI)
 4969.1 PERU Imagen 3/3 1004 OA mx, IDs, TC, chatter, laughter (D'Ang.)
 4970. VENEZUELA Rumbos 3/22 0940 //9659 (Johnson-MD)
 4975 COLOMBIA Ondas del Ortegaza 3/11 1131 ballads, poor (Daven.)
 4976t UGANDA RU 3/9 0410 EG nx w/ment Uganda (Serra-ITALY)
 4980 VENEZUELA Ecos del Torbes 4/5 1057 tlks, ID (Grenier-NV) 4/4
 0215 poss candy ad, ID, tango (Lamb-NY) 3/18 0325 folk mx, full
 ID, brief tlk (Jordan-PA)
 4990 NIGERIA R Nigeria 3/17 0527 pops, jingles, many IDs (Serra)
 4991 PERU Ancash 4/9 1030 ID, Lima nx, mx (Robinson-TN) 3/24 0757
 folk mx, FC, ID jingle, pops (Lamb-NY) 3/25 0550 lcl pops, TCs
 IDs (Pickard-IL) Good to hear from you--sp 3/13 0725 anmts,
 IDs, folk mx (Alexander-PA)
 4995.8 PERU Andina 4/14 0110 econ tlk, ads, ID (Rausch-NJ) 4/13 0955
 huay6nos, ad for natural medicine clinic (Moore-MI)
 5005t NEPAL R Nepal 3/4 1240 SC strings, Chinese-like vcIs, abrupt
 1257 fadeout (Brown-MO)
 5008 PERU Horizonte 4/10 *1000-1100* ID, mx, Quechua pgm (Robinson)
 5010 CAMEROON Garoua 0533 nx, ID, hilige, not hrd in while (Urbelis)
 3/24 1747 very long tlk, poss ID, EG nx abt Cameroon (Serra)
 3/3 to 2259* FR s/off anmts, orch NA, fair (D'Angelo-PA)
 5011 ECUADOR Escuelas R. Pop 1015 mx, IDs, lcl info (Urbelis-NY)
 3/3 1230 interview blaring in (Brown-MO)
 5015 TURKMENISTAN Turkmen R 3/10 1947 string mx, IS, poss ID (Serra)
 5020 COLOMBIA Ecos del Atrato to 0402* ads, ID, Caracol promos, LA
 mx, NA (Alexander-PA)
 5020 NIGER LV du Sahel 4/2 0536 good w/hilige mx (Brown-MO) 3/18
 0502 mx, ID, sked, strings, chants (Serra-ITALY)

5020 SOLOMON SIBC 4/2 1125 island mx, EG OM (Lawrence-NY) 4/7 1010 tent w/EZL, island mx, poss EG tlc, QRN (Peck-NY) 4/13 1035 EG environment pgm, TP, ID, nx (Rausch-NJ)

5025 BENIN Parakou 3/18 0504 Afr pops, ment Parakou (Serra-ITALY)

5025t BRAZIL Transamazonica 4/12 0325 tiks, soft rock "My World" (Peck-NY)

5025 CUBA kebelde 4/15 0437 LA vcls, sfx, ID 0454 (Robertson-CA)

5030 BHUTAN BBS 3/19 1205 prob nx, lcl mx, good opening (Clark-ON) 3/24 1335 long vcl, brief tlc, jingle, TP, ID, nx (D'Angelo-CA)

5030 SARAWAK 3/16 1251 folk mx, good (Brown-MO)

5033.6 CENT AFR REP RDC 3/25 0445 lang, chants, poss ID (Serra-ITALY)

5035 BRAZIL Aparecida 4/10 0856 pops, ID, fair (Moore-MI) 3/27 0215 Brasopops, big band mx //9629.7, 11855.1 (Alexander-PA)

5039.2 PERU Libertad 4/11 1035 ID, Almacen los Exitos ad (Moore-MI)

5047 TOGO kdt Togolaise 3/10 1925 FR ID, pops, QRN whizzing (Serra) 4/12 to 0003* FR pops, ID, s/off anmts, NA (Lamb-NY)

5048.8 ECUADOR R Jesus 4/7 0950 pops, tlc, organ mx (Peck-NY) 3/1 0119 folk mx of LA & discussion thereof (MacHarg-ECUADOR)

5051 COSTA RICA TIFC 4/14 0430 political pgm (Robertson-CA)

5051 FRENCH GUIANA Cayenne 3/18 0517 mx, Le Journal (Serra-ITALY) 3/26 0645 FR tlc, vcls (Grenier-NV) tent 4/12 0312 60s pops tlc (Peck-NY)

5060.5 ECUADOR R Progreso 2/27 2255 mx by Bolivian group, greetings weekly sports review (MacHarg-ECUADOR)

507 COLOMBIA Caracol 3/17 0507 TC, ads, IDs //4865 (Serra-ITALY) 0958 Caracol IDs, nx, PSA (Peck-NY) 4/7 0602 mx bridges, pol. tlc, ID (Robertson-CA)

5097.2 PERU R Eco 3/1 0110 love songs, TC, ID 0117 (MacHarg-ECUADOR)

5283 CHAD Moundou 0515 hillife, lang nx, buzzing (Urbelis-NY)

5493v UNID pops 3/27 1150, low lvl anmts, Indo? (Clark-ON)

5641.2 COLOMBIA Caracol site? 3/22 1025 Caracol IDs (Johnson-MD)

5691.2 VIETNAM 4/2 1103 unid here w/YL tlc, weak (Clark-ON)

5699.9 PEKU Frec. San Ignacio 3/1 0103 mx, ID, comunicados (MacHarg)

5813 USA WHCR 3/10 0025 EG tiks (Thompson-NY)

5850 USA Monitoradio 3/10 0035 EG nx, Letterbox, analysis (Thompson)

5882 VATICAN VR 4/4 to 0033* IT EZL, multi-ling IDs, IS (Lamb-NY)

This month reporters from 12 states, 1 province & 3 countries. Tnx KEN MACHARG for info on those Ecuadorian stations. You can hear more of Ken's & Rich McVicar's logs on the Quito Logbook portion of the DX Party Line Sundays 0038 or 0308. Also catch the new DX spot Thursdays 0400 right after Ham Radio Today. MARIE LAMB's News from NASWA airs the 3rd Sunday of the month during DXPL. This is Saturday night in North America. Another good DX pgm Marie tipped me off to is Radio Japan's Media Roundup Sunday at 1430 or Monday 0130. I had only hrd it a couple times previously but it is worth tuning into. They have a DX Corner and off the air tapes of Asian stations often featured. Next month's deadline May 20.

Mo'her's Day will probably be over by the time you read this but I guess most of our readers are fathers anyway. Memorial Day lands this month, which seems to be if not the official start of summer, at least the official start of vacation season here in North America. That is unless you live in the Caribbean where it's always vacation season because of the weather.

We are happy to mention new products or publications on the market when space permits. However, just a reminder that we like to leave as much room as possible for the loggings and therefore do not advertise this as advertising space. If you feel your product deserves more than just a mention, perhaps you would like to write to the Listeners Library or the Company Store or write your own ad and send to the publisher. Blah blah blah, The End.

International Band Loggings

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



- 5905nf BRAZIL SRI relay in EG 0101, nx, "Dateline", site ID (Lamb NY 3/23, Bickus VA)
 5910 BELGIUM RVI in EG *2058, IS, ID, fgys, "Brussels Calling", QTH (Lamb NY 3/29)
 5930 CZECH REPUBLIC R Prague in EG 0000, IDs, cmntry on Winter Olympics (Robinson TN)
 5945 FRANCE RFI in PT 2200, ID, xmsn to S Am, nx, classical mx (Robinson TN 3/23)
 5960 CANADA R Japan relay in EG 0330, tlk on folk mx in Japan (McGuire MD 3/17)
 5975 ANTIGUA BBC relay in EG 0427, nx of US tornadoes, ID, feature (Robertson CA 3/28)
 5985 PORTUGAL R Liberty relay in RS 2143, nx re Bosnia, piano mx, ID, IS (Lamb NY)
 59953v PERU R Melodia in SP-0803, ID, Andean mx, huaynos (Alexander PA, Moore IA 4/9)
 6005nf GERMANY Deutschlandradio in GM 1102, tlk re Star Wars movie, pops, ID as Deut. Berlin (new station repl former RIAS) (Serra ITALY 4/2)
 6005 ASCENSION IS BBC relay in EG 0350, variety pgm, Afr mx, ID (Robertson CA 3/28)h
 6025 DOMINICAN REP R Amanecer in EG 0400*, "Your Story Hour", ID, QTH, fgys, f/QRM, (Lamb NY 3/7) in SP 0132 w/"Ecos del Paraiso" relig pgm, f (Moore IA 4/9)
 60296 CHILE R Santa Maria in SP 0035, tlks, mx, ID on hr, f (Macharg ECUADOR 2/28)
 6050 NIGERIA RN Ibadan in EG 2305*, drums, native mx, NA, xmtr trouble (Moore IA 4/9)
 6055 SPAIN REE Madrid in SP 0411, nx, mx bridges, ID 0426, f (Robertson CA 3/28)
 6060 ITALY RAI domes svce in IT 0321, "Arriverderci Roma", IDs, f/QRM (Lamb NY 4/1)
 6060 ARGENTINA R Nac in SP 0633, chit-chat, marimba mx, ID, f (Robertson CA 4/7)
 60698 INDONESIA RRI Jayapura in IN 1125, pop vcls, ID, Jak nx 1200, exx (Clark ONT 3/27)
 6085 GERMANY Bayer RundfK in GM 1209, pops, cmntry, TS, nx, ID (Serra ITALY 4/2)
 6115 PERU R Union in SP 0845, huaynos, salutes to Peruvian towns (Moore IA 4/9)
 6120 BRAZIL R Globo in PT 0911, Braz pop mx, some USA oldies, promos, ID (Moore 4/10)
 6130 PORTUGAL Deut Welle relay in EG 0202, nx on LA tremor, ID, feature, f (Lamb 3/21)
 61304 CANADA CHXK Halifax in EG 1208, lcl wx, oldies, ID, Beatles mx (Johnston KY 3/13)
 6135 KAZAKHSTAN R Alma Ata in KZ 1230, IS, ID, nx, mx instrls (Ryan THAILAND 3/25)
 6150nf AUSTRALIA RA in EG 2050; oldies mx, ID, //11695, 11880, QRM 2100 (Berg MA 2/13)
 6150 COSTA RICA TIAWR Alajuela in SP 0606, tlk, classical mx, ID (Buenaman MO 3/29)
 6150 KENYA V of Kenya in EG 2050-2110*, Afr vcl mx, pips, ID, nx, NA, sig in the clear after VOA s/off 2100 (Alexander PA 3/10, D'Angelo PA 3/6)
 6185 MEXICO R Educacion in SP/EG 0640, variety mx, ID, QTH, DJ hosting Mexican mx, (Robertson CA 4/7, Grenier NV 3/26, Macharg ECUADOR 3/1)
 6195nf YUGOSLAVIA RY in EG 0101, nx re shooting of planes, ID, cmntry, interview, sports, rap mx, g (Lamb NY 3/1) ED: Move from 6190?
 6250 EQUATORIAL GUINEA RN Malabo in SP 2030, Afro pop mx, ID, tlks (Cleveland NY 3/13)
 64028v VIETNAM Yen Bai BS in VT 1206, hill tribe chants, exc signal (Clark ONT 4/3)
 65602 IRAQ Rep of Iraq R in AR *0254, IS 'clucking chicken', NA, Koran (Alexander 3/27)
 65925v VIETNAM Cao Bang (site presumed) in VT 1144, ex 6587, tribal chants (Clark 4/2)
 670045 VIETNAM Lao Cai BS in VT 1221, domes chorals/chants, wk but steady (Clark 4/3)
 67243 PERU R Satellite in SP 0045-0357*, contin tlk, OA mx, ads, ID, NA (Alexander 3/27)
 67649usb THAILAND Bangkok Meteorological R in EG/Thai 1155, mx, ID, wx, music box type IS, station power 1 kw per QSL (Rausch NJ 4/3, Clark ONT 3/5)
 68033 PERU R Ondas del Rio Mayo in SP 0100*, ID, huaynos, NA (Alexander PA, Rippel VA)
 6890nf BOSNIA HERZEGOVINA R B/H in Croatian 0235+, mostly vcl mx & tlks, pips & ID on the hr, nx, Sarajevo QTH, low power (Alexander 3/6, D'Angelo 3/26, Clark ONT 3/6)
 6890 CHINA CRI Beijing in CH 1145, tlk, CH mx, //4800, 7440, 7516 (Alexander PA 3/4)
 7100nf IRAN VOIRI in EG *0028, IS, ID, NA, pgm prevues, Koran, mx, nx of Mideast affairs (D'Angelo PA 3/14, Lamb NY 3/14, Jordan PA 3/22, Urbelis NY) //9022
 7105 ASCENSION IS VOA/BBC relays in EG 0414*, "Now Music USA", ID, switch to BBCMS at 0400 w/ID and world nx, f (Lamb NY 2/22)
 71257 GUINEA RTVG Conary in FR/Vern 2400*, Afr mx, FR nx 2350, ID, NA (Alexander PA)
 in FR/lang *0600-0714*, tlk, chants, marimba mx, drums, f-g (Robertson CA 3/28)
 7130 TAIWAN VOFC Taipei in CH 1200, tlk, ID, NA (Grenier NV 3/24)
 7160 SINGAPORE BBC relay in EG 1118, lang lesson, into IN 1130, IS (Moore IA 4/9)
 7185 SO AFRICA Channel Africa in FR 0439, TC, fgys, pops, sports, ID, nx (Lamb NY 4/4)
 7200 SUDAN R Omdurman in AR 0258, IS, NA, ID, nx, Qu'ran, vg (Peck NY 4/11)
 7265 GERMANY Southwestfunk in GM 1126, pops, pips, nx, wx, Music Box (Serra ITALY 4/2)
 7270 SLOVAKIA AWR in EG 0105, relig mx, ID, tlk on India, feature, g (Lamb NY 3/21)
 7294usb ITALY R Europe in IT 0746, tlk, ID, pops, sfx, weak (Alexander 3/6) only 1/2 kw!

7380:V ITALY Idea Radio in IT/EG 1312, pops, fgy, ID, QTH, QRM buzz (Serra ITALY 4/2)
7385 MONACO TWR in EG 0650, "Hour of Freedom", ID, early s/on, vg (Alexander PA 3/27)
7415 BOTSWANA VOA relay in EG 2030, interviews, features, ID, f (Cleveland NY 3/13)
7475 TUNISIA RTVT in AR 2100, nx, features, cmntry, mx, ID, g (Cleveland NY 3/13)
9022 IRAN VOIRI in FR/EG 1924, long tlk, ID, fgy anmts in FR, IS, f (D'Angelo PA 3/6)
9165 SUDAN R Omdurman in AR *0253, IS, NA, Koran (Alexander 3/27) in EG 1827 w/Afro
mx, ID, pips, nx, lcl info, speech, hrd daily, //7200 (Urbelis NY, Serra 3/21)
9344:V NO KOREA R Pyongyang in EG 1324, nx, IDs, KR mx w/DJ (Serra ITALY 3/19)
9400:usb COSTA RICA RFI in EG 2120, "Focus on Haiti", ID (Johnston KY 3/12) in SP 0002,
repl fgy for 9375, //73748 (Alexander PA 3/5)
9435 ISRAEL Kol Israel in FR 2135, tlk re fgys for KI, ID 2143, g (Peck N 3/28)
9455 SLOVAKIA AWR in EG *0357, instrml mx, ID in langs, beam to Afr (D'Angelo PA 3/30)
9485:if? USA R Miami Int via WHRI in Creole *2100-2200*, nx?, speech w, crowd noise, phone
interview, "remote" hook-up, Afro mx (Jordan PA 4/5)
9510 SRI LANKA Deut Welle relay in Persian *1756, IS, site ID, nx, tlks (Urbelis NY)
9530 SINGAPORE R Singapore Int in EG 1100-1302*, nx, IDs, mx mix, stock mkt rpts, QTH
(Clark ONT 3/5, Johnston KY 3/11, Urbelis NY, D'Angelo PA 3/3)
9535 RWANDA Deut Welle relay in GM 0446, mx medley, ID, g (Robertson CA 3/28) ED: No
doubt the DW relays from Kigali are kaput now that anarchy is rampant there.
9590 NETHERLAND ANTILLES R Nederland relay in SP 0502, interview, ID (Robertson 3/28)
9600 ASCENSION IS BBC relay in EG 0632, tlk re UN, Afr nx, sports (Buenuman MO 3/29)
9610:V JAPAN NHK Tokyo in EG 1105, ID, international nx (Rausch NJ 3/26)
9620:V MOLDOVA R Dniester Intl in EG *2130-2159*, ID, fgy, "News Magazine", interview,
press review, into RMWS 2200, and EG on M-W-Sa (D'Angelo PA 3/6, Berg MA)
9620 SPAIN REE in SP 2100-2200*, sports event, interview, ID, fgy (Jordan PA 3/12)
9620 URUGUAY SODRE in SP 0045, fast-paced tlks, sports nx, ID, p (Jordan 4/6)
9640 ALGERIA V of Free Sahara in SP 2130, tlk, mx, ID, QRM BBC 9635 (Cleveland NY 3/13)
9645 COSTA RICA Faro del Caribe in SP 0905, rel pgm, ID //6175 (Rausch NJ, Urbelis NY)
965:Vnf INDIA AIR New Delhi in EG 1915, HD mx, ID, econ tlk, exc //11620 (Urbelis NY)
9655 CHINA CRI to ECNA in EG *1200-1300*, nx, "Life in China", polit cmntry, ID, fgy
tlk on farm production (Jordan PA 3/11, Grenier NV 3/28, Robinson TN 3/25)
9655:V VENEZUELA R Rumbos in SP 0200, tlks, ID, fgys, promos, ballads (Jordan PA 4/6)
in SP 1105+, IDs, Latin pop mx (Moore IA 4/10, Robinson TN 4/10, Rippel VA 3/28)
9665 BRAZIL R Marumby in PT 2311, brief tlks, ID, rel? pgm, VOA QRM 2328 (Moore 4/9)
9675 BRAZIL R Cancro Nova in PT 0103, TC, greetings, Bible reading, ID (Bickus VA 4/5)
9680 INDONESIA RRI Jakarta in IN 1205, Jakarta nx, back on after 2 mos (Clark ONT 4/2)
9700 NEW ZEALAND RNZL in EG 0805, lcl nx, wx, sports info (Grenier NV 4/2)
9735 PARAGUAY R Nacional in SP 1026, IDs, folk mx, tlks (Moore IA 4/9, Peck NY 4/7)
9740 SINGAPORE BBC relay in EG 1444, fgys, TC, IDs, nx, f (Lamb NY 3/24)
974:Vnf? IRAN VOIRI in EG 1935, nx, Koran, tlks, Farsi mx, //9022 (Urbelis NY)
9745? BAHRAIN RB in AR 2132, nx, ID, instrml mx, nx again 2200, f (D'Angelo PA 3/27)
9770 UNITED ARAB EMIRATES Abu Dhabi in EG 2210, Koran, ID, sked, prayer (Jordan 3/12)
9780:3 YEMEN R San'a in AR 2025, tlk, AR mx, ID, nx, NA (Peck NY, Johnston KY, Lamb NY)
9800 FRENCH GUIANA RFI relay in SP/FR 0530, tlk, mood mx, ID (Robertson CA 3/28)
985:Vnf? SWEDEN RS in EG *0230-0300*, IS, ID, fgy, nx, "60 deg North" (Jordan PA 4/1)
985:Vnf PAKISTAN RP in EG 1732, history tlk on subcontinent, f (Moore IA 4/9)
986:Vnf AUSTRALIA RA in EG 0515, features, nx, mx, ID (Jordan PA 3/23, Grenier NV 3/14)
9900 EGYPT R Cairo in EG 2100, world nx, cmntry, ID, lite mx, feature (Cleveland 3/13)
9925 BELGIUM RVI in SP 2029, fgys, IDs, nx, "Europa", //5910 (Lamb NY 3/29)
11335 NO KOREA R Pyongyang in EG 0001, ID, NA, nx, cmntry, f, //13760 (Lamb NY 3/22)
1143:usb CANARY IS R Uno RNE relay in SP 1920, sports, ID, mx (Johnston KY, Cleveland NY)
11587 ISRAEL Kol Israel in EG 2240, tlk on situation in West Bank, f (McGuire MD 3/6)
11625 INDIA AIR in EG 1805, nx, ID, sports nx, cmntry, mx (Serra ITALY, Bickus VA 3/20)
11715 MALI China R Int relay in EG 2100, nx, cmntry, ID, classical mx (Cleveland 3/13)
in EG 0324, business nx, CH mx interludes, idioms feature (Buenuman MO 3/29)
11720 BULGARIA RB in EG 1915, cultural review, IDs (Pickard IL 3/27)
11725 PORTUGAL R Liberty relay in RS 0307, nx, ID, IS, "Amerikanski Humor" (Lamb 4/1)
11740 SAUDI ARABIA BSKSA in AR 0535, Holy Koran, anmts, //9885 (Urbelis NY)
11740 BELGIUM RVI in EG 2343, "Belgium Today" re Mobutu, ID, //13655 (Lamb NY 3/29)
11740:Vnf PORTUGAL Deut Welle relay in EG 0134, "Backdrop", site ID, fgys (Lamb NY 3/30)
11745 ALBANIA R Tirana in AL 0157, IS, ID, nx, organ mx, sports, //9760 (Lamb NY 3/30)
11765 BRAZIL R Universo in PT 2337, drama pgm, g, //6060, 9565 (Moore IA 4/9)
11770 PORTUGAL R Free Europe relay in BG 1619, mx, ID, nx, song by Alabama (Lamb 3/27)
11770 SAUDI ARABIA BSKSA in AR 1635, IDs, nx re Bosnia, Middle East, US (Lamb NY 3/27)
11775 BRAZIL R Guariba in PT 2340, instrm rock, heavy QRM, //6000 (Moore IA 4/9) in PT
0222-0401*, sports, canned IDs, nx, Braz pops, QTH, fgys, f-g (Lamb NY 4/11)
118:0 HONG KONG BBC relay in EG 1417, horse race coverage, //11750, f (Lamb NY 4/2)

11830 VATICAN STATE VR in EG 2249, tlk re Pope's visit to Bangladesh, f-g (Lamb 3/29)
11860 SINGAPORE R Japan relay to SE Asia in EG 0150, DX pgm (MacHarg ECUADOR)
11865nf GERMANY Deut Welle in EG *0000-0050*, world & Eur nx, "European Journal", press review (Jordan PA 4/2) ED: DW forgot to include this in latest "Tune In" program.
11870 COSTA RICA AMR in SP 0201, rel tlks, choral mx, //6150 (Lamb 4/4) ED: Marie Lamb reports that this station will be closing soon)
11910 HUNGARY R Budapest in EG *2200-2255*, IS, ID, billboard, sked, nx, interview, DX pgm, QSL offer, nx re HG parliament (Jordan PA 3/25, Robinson TN 3/21)
11925 GABON R Japan relay in EG 2100, nx, ID (Pickard IL 3/27)
119601 MALI RTVM in FR/Vern 0703, NA, Koran, tlks, //96344, 72849 (Alexander PA 3/6)
11990 KOWAIT RK in AR 1650-1800, tlks, 5+1 pips, ID, patriotic mx, nx, feature, speeches, dramatic mx bridges, f (Jordan PA 3/16)
12008 SPAIN EBC Time Stn 1025*, long & slightly louder pulse on the min (D'Angelo PA)
12035 SPAIN REE in dialects 0920, lcl nx, ID in Catalan, TP, mx //15110 (Serra 4/2)
13590 PAKISTAN RP in EG *1555, IS, ID, "Typewriter Song", slo-speed nx, f-p (Lamb 4/2)
13675 UNITED ARAB EMIRATES R Dubai in EG 1639, classical mx, nx, g (Lane ONT 3/26)
137601 NO KOREA R Pyongyang in EG *0000-0047*, IS, ID, NA, nx, cmntry, KR folk mx, full EG sked as in WRTH, s/off w/NA again, f-g, //11335, 15130 (Alexander PA 3/26)
150295 COSTA RICA RFPi in EG 0155, "Wings" pgm on women's issues (MacHarg ECUADOR 3/1)
15077nf? CUBA RHC in EG 2200* on USB, sax mx, IS, ID, NA (Lamb 4/12) spur maybe?
15084 IRAN VOIRI in Farsi 0141, tlks, pop rx, lcl mx, f-p, //15365 (Lamb NY 3/22)
15095 SYRIA R Damascus in EG 2031, from AR literature, IDs, //12085 (Pickard IL 3/27)
15115 NEW ZEALAND RNZI in EG 0225, classical & pop mx, balloon races in Wellington, (Peck NY 4/11) tourism in NZ 0432 (Grenier 4/11) Maori Mana, nx 0500 (Urbelis NY)
15220 TAJIKISTAN R Moscow relay in EG 0220, ID, editorial, summer sked (Rausch NJ 3/28)
15235 LIBYA R Jamahiriya in AR 1030, AR mx mix, ancmts, low audio (Urbelis NY)
15265 BRAZIL R Nac Brasilia in EG 1820, lcl nx w/mx bridges after items (Serra ITALY)
15280 HONG KONG BBC relay in EG 0007, "Newsdesk", ID, EG lesson, f (Lamb NY 3/21)
15305 CANADA RCI Sackville in RS 1530, ID, nx re Kiev, nuke reactors (Robinson TN 4/9)
15340 RWANDA RR in FR 2051*, class mx, tlk re situation in Kigali, f (Lamb NY 4/8)
15365 AUSTRALIA RA in EG 2131, two W discuss theory of evolution (Grenier NV 3/27)
15370 GERMANY R Free Europe relay in Slav lang 1720-1800*, nx magazine format, pop mx in lang, field reporters, g, beamed to former Yugoslavia (Jordan PA 3/20)
15400 ASCENSION IS BBC relay in EG 2010, interviews, TC, nx, cmntry, IDs, "Jazz Score" "From A to Z", quiz show (Cleveley NY, Lamb NY 3/27)
15410 MOROCCO VOA relay in EG 1700, African service, ID, TC, fqys (Cleveley NY 3/13)
15430 JAPAN RJ/NHK Tokyo in EG 2302, nx, ID, "Magazine Hour"//6125 UK relay (Lamb 3/29)
15435 LIBYA R Jamahiriya in AR 2130, Western style mx, chants, ID, tlks (Cleveley 3/23)
15445 BRAZIL R Nacional Brasilia in EG 1250, Braz pop mx, ID, f (Moore IA 4/9)
15495 KUWAIT R Kuwait in AR 1035, AR mx mix, ancmts, nx (Urbelis NY)
15530 AUSTRALIA RA in IN 2232, EG lesson, ID, fqys, IS, pop rx, nx, f (Lamb NY 3/20)
15675 HONDURAS R Copan Intl in EG/SP 2305, IDin EG, tlk in SP re lcl politics, pop mx, (Peck NY 4/13) in SP 2123, mix of SP & EG hard rock mx, IDs, f (Moore IA 4/9)
15675 PAKISTAN RP in Urdu? 1531*, subcont mx, "Typewriter Song", ID, nx, NA (Lamb 4/2)
17725 UKRAINE RU in UK 1600, IS, ID, instrml mx, world nx, f (Lamb NY 3/27)
17735 PHILIPPINES VOA relay in EG 0046, "Space and Man", IDs, QTH, f (Lamb 3/23)
17785 MOROCCO VOA relay in FR 2000, ID, "Jazz Aujourd'hui" pgm, f-j-g (Lamb 3/26)
17895 CYPRUS BBC relay in Somali 1435-1459*, nx, IDs, bridge mx, tlk (Serra ITALY 3/20)
21605 UNITED ARAB EMIRATES R Dubai in AR 1428, ID "Idha'at Al Imarat Al Arabiyya Al Dubai", AR mx (Serra ITALY 3/19) in EG 1639, classical mx, nx (Lane ONT 3/26)
21630 UNITED ARAB EMIRATES Abu Dhabi in AR 1100, AR mx, tlk, ID (Ryan THAILAND 3/23)
21635 GABON RFI relay Moyabi in FR 1435-1457*, feature re flute & its mx, fqy, sked, no ID at s/off (Serra ITALY 3/19)
21670nf RUSSIA University Network relay Armavir? in EG 0530, Dr Gene Scott sermon, move from former 21845 (Ryan THAILAND 3/27)
21695nf GERMANY Deut Welle in Hausa/FR 1241 f/in-1350*, tlks, ID, fqy, nx?, lively mx, Afro-flavored mx (Jordan PA 3/28) ED:Could this be repl for Kigali relay 21705?
21735 UNITED ARAB EMIRATES Abu Dhabi in AR 1300, ID, prayers, tlks, lively ME vcsls, percussions & strings mx, pips, fanfare, nx (Jordan PA 3/23 & 24)

CLANDESTINE STATIONS

6530nf R Patria Libre-Colombia in SP *0029-0057*, tlk, IDs, Ranchera mx, f-g from jammer?, formerly on 5910 (Alexander PA 3/13)
7290 A Voz da Resistencia do Galo Negro-Angola in Vern/PT/FR 2150-2236*, AF folk & pop mx, VORGAN IDs, NA, g level but Ham QRM (Alexander PA 3/13)

the page

COMMITTEE TO PRESERVE RADIO VERIFICATIONS

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

VP3 THE

JUNGLES OF BRITISH GUIANA
SOUTH AMERICA

Confirming on Nov 29 1937
 Transmitter: RCA Model ACT-300 RCA 838
 at (if local only)
 Receiver: RCA Model AR-605 Communications
 Receiver
 RCA Victor Broadcast Receiver.

Remarks: _____

"Two Homesick Explorers"

On November 15, 1937, VP3THE was "on the air" after weeks of "homesickness" and a very rough, un-
 credited situation and during this time to inform
 the world of the activities of the team, and to
 for the American Museum of Natural History.

VP3THE was on an approximately 500 mile trail
 the expedition at Long 8° 19' North - Lat 58° 59' West. The
 station was operated by O. W. ("Bill") Mangrove, radio
 operator, and Noel ("Mac") MacMillan, field manager.
 a special NBC program originated from the base camp
 which was picked up by RCA Communications, Inc. at
 Riverhead, N. Y. and forwarded to the NBC broadcast
 network.

in spirit of the formal, operational should not a single
 feature was associated with the RCA equipment.

On January 13, 1938 VP3THE was "off the air." We
 greatly appreciate your acknowledgment of our signals.

73.

NATIONAL BROADCASTING COMPANY Inc
 30 Rockefeller Plaza, New York City



This card will verify your reception of Station VP3THE, operated by the
 Terry-Holden Expedition now located near the Brazilian border in British
 Guiana.

This station does not transmit on a regular fixed schedule but from time
 to time its programs are broadcast exclusively over the Red and Blue
 Networks of the National Broadcasting Company.

NATIONAL BROADCASTING COMPANY Inc

These days it is easy to forget how small the world once was and what big news it was when an expedition entered the interior of some far off place. The Terry Holden Expedition was one such journey. It was widely covered by RCA, whose radio equipment was used by the expeditioners. The top card is from the expedition ham station, while the bottom one is a QSL which NBC apparently used to acknowledge reports of various Terry Holden programs which originated from the expedition site and were carried over the NBC radio network. This presumably included shortwave. The card is very similar to the one used by NBC for verifying programs on its shortwave stations. From the May 1938 issue of **RADEX**: "Our camp was some 600 miles up the Essequibo and Rupununi rivers, and after we set up the radio shack we began to receive visitors. For a couple of weeks the most faithful of these were a group of Wal-wal Indians, who came to inspect the radio equipment and everything else we had. . . . Then there was a little girl who came with her mother. She listened to the strange noises coming out of our receiver while we were talking to NBC in New York. She looked first

under the table, then up at the ceiling to find out where the voice was coming from. Then she went outside and looked up at the roof. All of a sudden there was a loud wall. The only way we could stop her was to let her manipulate the dials. It finally dawned on her that the voice was coming out of the radio apparatus." +++ A reminder that the CPRV has a Registered Collections Program that will supply you with stickers to place on your QSL albums indicating your wish that they be donated to CPRV when the time comes. For more information on this, send a business size SASE to Registered Collections Program Coordinator John C. Herkimer, P.O. Box 54, Galeonia, NY 14423, or to yours truly. 73. 

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

Expiration Date 11

Fred McCormack

Box 65666

St. Paul, MN 55165-0666



The Journal of the
North American Shortwave Association

ISSN 0160-1989

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: Hans Johnson, 7529 Red
Cravat Court, Columbia, MD 21046

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, 6943 Parkway Dr.,
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 Arcy, 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: NASWA, 45 Wildflower Rd.,
Levittown, PA 19057

MEMBERSHIP FEES:

North America (First Class Mail)	\$25.00
Overseas (Air Mail):	
<i>Central America, Caribbean, Venezuela</i>	
<i>& Columbia</i>	\$29.00
<i>South America and Europe</i>	\$29.00
<i>Asia, Africa and Pacific</i>	\$32.00

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

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

