

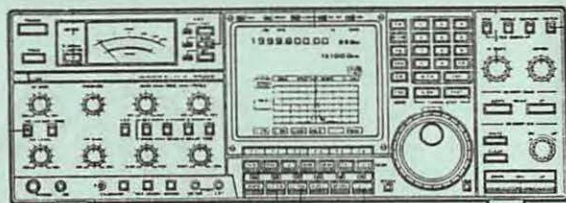
FRENDX



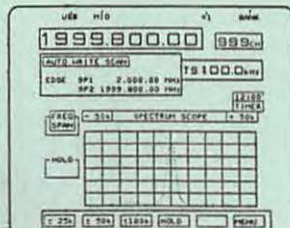
*Exterior view of
Broadcasting House, New Delhi*

UNIVERSAL SHORTWAVE

Icom R-9000



CRT DISPLAY



The R-9000 is a revolutionary all-mode, super wide-band receiver that continuously covers a frequency range of 100 KHz to 1999.8 MHz. The most visible of the radio's many advanced features is the built-in multi-function CRT display. Receive frequencies, modes and additional useful data are displayed for your operating convenience. The CRT functions as a spectrum scope to show you, at a glance, the relative signal strengths of nearby receive frequencies. The span of the spectrum scope can be selected for ± 25 , ± 50 or ± 100 KHz according to your needs. The screen can also display the contents of 10 memories at once, and can be scrolled to display other memories. The CRT can also be used as a display device to monitor RTTY or packets via an ASCII RS-232 input port (external data converter required). A total of 1000 memories (ten banks of 100) store frequencies, mode, filter width and tuning step increments. You can use different memory banks according to station type, frequency ranges or whatever your preference. By using the memory list screen, many more convenient functions are provided: up to eight character notes for your reference; and the advanced super convenient memory editor function easily moves, copies and deletes the memory contents. Tuning steps: 10 Hz, 100 Hz, 1 KHz, 5 KHz, 9 KHz, 10 KHz, 12.5 KHz, 20 KHz, 25 KHz and 100 KHz. The R-9000 has seven different scan functions with adjust scan speed up to 13 channels/sec. *Program Scan* scans between pre-programmed scan edges. *Memory Scan* scans memory channels. *Selected Number Memory Scan* scans memory channels with the same programmed mode. *Priority Scan* monitors specified memory channels. *AF Scan* scans around the receiving frequency. *Auto Memory Write Scan* programs receive frequencies into memory channels (900-999) during programmed scan. The R-9000 provides versatile scan resume functions when a signal is received: the scan cancels, pauses until a signal disappears, pauses for an adjustable time, or pauses for the mixed conditions of signal activity and time. Also a new *Voice Scan Control* system allows you to skip inconvenient signals such as signals with no modulation, beeps or noise.

SPECIFICATIONS

Dimensions	16.7"W x 5.9"H x 14.4"D
Weight	44.1 Lbs. (56 Lbs. ship)
Frequency Range1 - 1999.8 MHz
Power	110 - 120 VAC 60 Hz
Antenna Impedance ..	50 ohm (400-500 ohm ¹)
Selectivity (-6dB) ...	AM 6 KHz SSB/CW 2.4 KHz FM-N 15 KHz FM-W 150 KHz
Sensitivity16 μ V 1.6-30 MHz 32 μ V 30-999 MHz
Freq. Stability	± 50 Hz 1-30 MHz
Inter. Freq. (MHz) ..	1st IF=48.8 (1-30) 1st IF=778.7 (30-500) 1st IF=278.7 (500-1000) 2nd IF=10.7 3rd IF=455 4th IF=10.7
Antenna Jacks	1-30 MHz SO-239 1-30 MHz RCA ¹ 30-1000 MHz N 1000-1999 MHz N ¹ HF Antenna Two

Superior interference rejection is achieved with both IF shift and notch filters. Control features include dual clocks with two kinds of sleep timers and five independent daily timers. Noise reduction is accomplished with a threshold selectable wide-narrow noise blaster. The squelch can operate by meter or noise level. A keypad is provided for rapid frequency entry. The output of the CRT can be routed to an external monitor, and the CRT can act as a monitor for an external or internal video source. See TV or your RTTY decoder on the CRT! Mounting handles for standard 19 inch racks are included. Rear jacks include: DC Out, EIT, Spkr., Record Remote, Speech Out, Line Out, IF (10.7 MHz) Out, Video In & Out, Data In, Acc., plus 4 antenna jacks (see specifications). The R-9000 is on display at Universal now.

LIMITED WARRANTY

Standard Manufacturer Warranty: 365 days
Optional Extended Warranty To: 548 days
Order #1585 \$49.00

PRICING

R-9000 List Price \$5459.00
R-9000 Discount Price
Order #0419 \$4795.00
Shipping/Handling/Insurance \$28.00

OPTIONS AND ACCESSORIES

- ◆ Icom UT-36 Voice Synthesizer Order #3002 \$33.95
This option tells you the frequency and mode at the press of a button.
- ◆ Icom SP-20 Speaker Order #1672 \$139.95
Matching speaker for improved tonal quality. Includes audio filter. With audio cable.
- ◆ Icom CT-17 CI-V Level Converter Order #2771 \$89.95
For remote control using a personal computer with RS-232 port.

- Visa, MC, Discover
- Prices are subject to change.
- Full catalog \$1 postpaid

STORE HOURS

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

Serving Listeners Since 1942!

Universal Shortwave Radio

1280 Aida Drive Dept. FREN
Reynoldsburg, Ohio 43068 U.S.A.
Toll Free: 800 431-3939 Ohio: 614 866-4267



From the Executive Director

Chuck Rippel
1272 Parkside Place
Virginia Beach, VA 23454
COMPUSERV- 72571,1046

This month finds more changes being made in our continuing effort to improve the *FRENDX* journal. Dr. Cones and the Editorial Committee came up with a plan to better organize the pages of *FRENDX*. One problem which kept resurfacing was how to handle all the material contributed by NASWA'S members. NASWA considers these contributions their highest priority but their unpredictable volume makes planning each issue difficult. Recently, all of the editors were given page count guidelines so they can better plan and then edit their columns. This is in no way meant to discourage your contributions. They are our greatest asset. Keep them coming!

I would like to take this opportunity to salute the contributions to both NASWA and the Short Wave Listening Hobby made by Glenn Hauser. As many of you may know, Glenn has contributed to *FRENDX* for 15+ years. In the early 70's he edited Harmonic Hunting with Hauser and continued with his current column, Listener's Notebook. In March, Glenn wrote a short note to publisher Bill Oliver saying that, due to constraints on his time, he was on the verge of resigning. Glenn himself publishes two fine Short Wave enthusiast publications, DX Listener's Digest and Review of International Broadcasting. These along with Glenn's weekly radio show, World of Radio, and his column in the commercial publication, Monitoring Times, do indeed place a premium on his time. With the June issue of *FRENDX*, Glenn will be leaving the NASWA editing staff.

The new editor is widely known to many in the hobby. Bruce MacGibbon has not only edited several columns in the monthly *SPEEDX* publication but has also written, published and distributed his own publication, The DX Spread. Bruce is best able to introduce himself and no doubt will do so later in the pages of this issue. Hopefully, in the near future, he will send a picture and a few lines about himself for *FRENDX* Portraits. It is my hope that Bruce will continue to write for both *SPEEDX* and *FRENDX* symbolizing the growing unity within our hobby.

For those of you who were not among the lucky ones to purchase a copy of Proceedings 1988 before they ran out due to demand, take heart! Published by Fine Tuning Special Publications and to be priced in the \$20 range, Proceedings 1989 has a tentative publishing date this August 1.

As some of you may remember, Proceedings is a compendium of what is perhaps the finest hobby related resource material available regardless of price. This year's Proceedings has turned out to be a "joint effort of four of the best groups in the hobby." Hobby leaders from Fine Tuning, NASWA, ODXA and Numero Uno have contributed a series of professional level articles and research working papers which will make up the 210 page volume. I have had an opportunity to see some of the drafts for the material for Proceedings 1989 and if they are an indication, the publication will again be first rate!

FRENDX will, of course, publish an appropriate announcement concerning the details of content and price. *FRENDX* readers might not want to procrastinate. Once a price and available date are announced, the smart move would be to purchase your copy of Proceedings 1989 before they are gone.

Remember, this column is not simply a place for my own ramblings. Please take the opportunity to drop me a line. I will be glad to print your letter and a response on a space available basis.

Note - Bob Brown's Compuserve ID as listed in this column last month was incorrect. It should be 74756,1557.

Also, I am looking for a MINT condition HQ-180 or HQ-180A receiver. If you know of one that would like a new home, please let me know. Thanks - Chuck

DX'ers Forum

*Dedicated to
Furthering the Art,
Science and
Enjoyment of DX'ing*

Conducted by Rowland Archer, 5524 Hawthorne Park, Raleigh, NC 27613

June, 1989

Iwould like to say a quick "thank you" to all of you who have written with kind words about this column. Any editor will tell you that doing a column takes a fair amount of time, and knowing that my efforts are appreciated certainly helps to keep me motivated.

I have received several letters that mentioned in passing things like "although I don't understand everything in your column, I enjoy reading it." None of these correspondents mentioned what it was that they didn't understand, so I'm unable to help those folks at this point. The purpose of this column is to share information that helps us all to enjoy the hobby more and become more proficient at it. If you have a question about anything you read here, please send it in! I'll be glad to try answering it myself, or pass it along to someone who can if I get stumped.

Time is running out to make arrangements for attending ANARC 89, the convention of the Association of North American Radio Clubs. ANARC 89 is being held at the Dolphin Beach hotel in St. Petersburg Beach, FL, from July 14-16, with an optional day-trip on the 17th to Disney World. This year's convention looks like a real winner, with club and equipment vendor exhibitions, talks by radio hobbyists and broadcasters, and plenty of time for meeting with other DX'ers and SWL's. If you are interested in attending, you should write or phone for details from Jeff White, the ANARC 1989 conference chairman, at:

ANARC 1989
P.O. Box 272301
Tampa, FL 33688 USA
Telephone (305) 324-1747

Thanks to Art Kleiner for sending a copy of a fascinating article entitled "Eavesdropping on the World - The Log of a Listening Post in the Little Back Bedroom" from the August, 1922 edition of *Scribner's Magazine*. It talks about the early days of the radio listening hobby, including the thrill of building your own equipment, hearing a new station, and many other things. A couple of quotes to give you a taste for the article: "The public is in a wild scramble to get in line for the new sport, the manufacturers are working overtime to supply the demand for receivers, and new broadcasting stations make their initial announcements to the swelling audience of silent listeners every few days."

"Each radical advance in methods or construction of instruments announced in the magazines sent us after more mahogany, copper wire, binding posts, and other parts. The good wife and scout-mother grew tired of our fussing around in the kitchen, so we retreated to the attic and kept on winding coils and making cabinets, going on many blind trails, but marking well the high spots of success. What excitement stirred the household when we heard the great Arlington station for the first time!"

I'm not clear at this point as to the copyright issues around reprinting part or all of this article, so for the moment I'll just mention the reference to it for those who may want to try and find it from their local library.

This month we conclude the DX'ers Forum Panel Session on Fundamental DX'ing Techniques. Our panelists are Rich D'Angelo, Mitch Sams, and Dan Sheedy, all very accomplished DX'ers. Last month we covered the topic of organizing information in preparation for DX'ing, walked through a typical DX session, and talked about bandscanning. This time we cover the topics of station targeting (going after specific stations), getting ID's, and hearing and identifying new stations.

Fundamental DX'ing Techniques: Part II

A DX'ers Forum Panel Session

With Rich D'Angelo, Mitch Sams, and Dan Sheedy

Forum: *Another popular DXing method is targeting, or going after specific stations. What's your approach to this?*

D'Angelo: Putting together a list of target stations/countries and keeping it up-to-date (frequency changes, variations in s/on or s/off times, etc.) is very important. As mentioned earlier, I follow various DX publications, such as FRENDX, and note interesting targets on a 24-hour summary sheet of paper. Each month I begin a new summary but I never discard the previous month's target list. Generally, I combine some scanning with target hunting. For example, if I'm looking for a particular station and the station on that frequency is playing music I would hold that frequency in the R-70's memory and begin scanning. Naturally, I keep coming back to my target station.

It also helps to have a reliable station, such as Radio East New Britain - 3385, as a beacon to a region. When your beacon is coming in at good levels then other stations should be in too.

Sams: I maintain several lists to aid me in DXing. I have an Indonesian list showing stations needed in the "Heard" and/or "QSLed" category. I also have a similar list for countries heard and/or QSLed. I try to keep notes on these lists of the latest loggings or verie signers reported.

Sheedy: All (or nearly all) of the DXing I do is targeted, so I can, if the mood strikes, run through all the Asians on the list in perhaps 30-45 minutes and, if nothing nifty surfaces, I can twiddle about, goofing off, or chase down a pet project (usually involving cursing USSR FS/HS stations packed like sardines on 49M).

With the ICOM and its extra VFO, I may use VFO-A for checking targets after a possible station on the list has appeared and been thrown in VFO-B. Or, I may, depending on how much I want good details, ID, or whatever on the "possible", just sit and become one with the "possible"...daydream, relax and just take notes. It depends on where in the priority list the "pos-

sible" is. Do I take the first needed Indo or do I try for Lumajang (the gold star Indo on the list) and possibly miss both?

It's not like pushing the "GO" button at SACHQ, but the semi-tension does tend to keep the cholesterol from building up.

Forum: *When you come across a signal that you're not familiar with, what do you do next?*

D'Angelo: The real fun is when you stumble across that unfamiliar signal. I can't sit around and "just" listen. I try to narrow down the possibilities. The DSWCI puts out a number of excellent reference sources such as the Tropical Bands Survey, the Home Services Above the Tropical Bands list, and their Clandestine Station list. All are regularly used in my shack. In addition, checking for possible parallel frequencies and a review of recent DX publications helps in narrowing down the possibilities. Of course, the hunt doesn't end until you can positively ID the signal.

Sams: If I come across an UNID I first try to determine the language, that of course is a big clue. I continue to listen for other clues such as the music, signal strength and propagational characteristics. I usually check the DX Edge (for grayline locations) for help in determining possible QTHs.

If possible, I then try to come to my own conclusion on what the UNID could be. I next try to verify this guess or these guesses with various reference sources, which add clues such as the s/on and s/off times, program language changes, news, relays and parallel frequencies.

Sheedy: Mostly it depends on where the signal shows up. If it's not on a list, I can usually dredge up some kind of vague memory of a station on that frequency. If I can't and it's not in TBS, Home Service Stations outside the Tropical Bands, WRTH, or any stray FT/DXSF/NU/FRENDX that I neglected to

send to the recycling center, I can toss a coin and see if target stations are in, slap the unID into VFO-A and scan the targets or just vegetate on the unID and make copious, if slightly fanciful, notes. If I'm stone bored with the DX session (yup, it happens, usually about the time my feet freeze) I may sit on it until it IDs, fades, signs off, or gets QRMed. I may never ID it, but at least I can get the reception notes into the bulletins as an UNID and get help. It can't hurt and it might keep some aspiring DXer off the streets at 3AM local.

Forum: *As a novice DXer, I was baffled by the ability of some DXers to consistently report new stations or new frequencies before everyone else. They seemed to be listening everywhere on the bands, all the time! What advice would you give DXers who want to be among the first to hear new stations and frequencies?*

D'Angelo: Listen everywhere on the bands, all the time! Seriously, you have to continually develop your skills by listening, trying for new targets, learning a little about propagation and keep plugging away. It takes time and no DXer stops learning unless he stops listening. The new stations and frequencies will come if you put in the time.

Sams: Become familiar with the stations that are on regularly, that makes it easier to spot the rare ones when they show up. Also, don't be afraid to cruise off the beaten path once in awhile. Those odd frequency bands or odd times can surprise you sometimes.

Sheedy: **KNOW THE BANDS YOU SPEND MOST OF YOUR TIME ON!!** If you can mumble IDs as you casually scan the preferred band, new stations or off-frequency regulars will show up like a sore thumb. Spend some time in the out-of-band sections of the spectrum, too. OAs, some PYs, and seemingly 25% of the Indos and SE Asians enjoy the heck out of being in the middle of a ute barrage. Just for example, 6.3-7.0 MHz: with the general lack of stations on such chunks of the spectrum, the "legit" ones are easily (well..) noted and, again, new or off-the-wall stuff is conspicuous. Of course, conspicuous is a relative term. So time, patience, and an ability to become practically catatonic and still function as a note-taker, bulletin-thumber, and //seeker are kind of helpful.

Preparing to hear new stations and frequencies may be as easy (?) as reading LN in FRENEX, or some of the other, similar columns in other clubs; tuning WoR/SWLD and keeping an astrologer or Taoist sage on retainer probably wouldn't hurt either.

Forum: *Each new DX find brings with it a challenge to make a correct and positive ID. Most DXers enjoy being among the first to hear and report something new, yet no one likes to get egg on their face by reporting an incorrectly IDed station. How do you decide whether to hold back on reporting something, or to report it as Unid, Tentative, Presumed, or IDed?*

D'Angelo: DXers that are consistently reporting new and different things are putting in the time. A DXer's credibility depends upon his accuracy. If you just don't know what you've got then say so -- there is nothing wrong with listing a station as "unID". A "tentative" or "presumed" requires a basis for that assertion and the log should state why you presume it's Radio Almosthere you heard. Never hold back on reporting something but do be careful about how it is reported. There are lots of DXers out there with ideas about possibilities of unIDs so do report them.

Sams: I believe it serves a very useful purpose to report unIDs, if any possibility exists that it could be newsworthy. They should be considered as "working data" for others. If one held to the idea that only IDed stations should be reported then we would certainly miss out on some good news. For example, if only reports with IDs for Tonga were allowed in print we would probably still be waiting for that news.

But when reporting a station one should not be ashamed to call it "tentative" or "presumed" if no actual ID was heard, even if everything points to one particular station.

Sheedy: Yeah, I'm as looney as the next DXer as far as being the "first" to log a station. But, I'd rather stick a "tent." in front of any exceptional, but not positively IDed logging and be safe (and yup, I've been wrong and felt like camel droppings. You DO get over it). Ideally, several sessions of intensive DXing should help clear the unID or at least narrow the possibilities down. If that isn't feasible, get the info into print--there's

a LOT of other people out there doing the same hobby and synchronicity DOES occur.

As far as crossing the i's and dotting the t's, if I hear an ID, it's IDed. If I hear a well-known program but no ID, yeah, I'd go with "IDed" again, but I might change the name of the reporter (just kidding). Presumed? OK, case in point. I hear SCI, warta berita Jakarta, and then a mention of "Programa Nasional.." but no ID on 7270, and it's //9680. RRI Jakarta and I dare you to say no. Simple? No, no ID, but everything else but that would put it in "presumed". Tentative? Major details, language, no ID and a possibility of a second station in the same general area. UNID, anything I can't decipher or am too lazy to check //s for, hi.

I don't know if it's still available or not, but Don Jensen did a very fine job of "defining" unID, tent., presumed and ID'd in "on the Way to the Top" some years ago--it was reprinted in DXing According to NASWA.

Forum: Along these same lines, I think many DXers would be amazed to know how many hours the most experienced hobbyists can spend on a single unidentified station. It's easy to assume that because someone is very experienced and has heard lots of great DX over the years, they can ID anything quickly. What's the real story here? How much time do you spend chasing unIDed stations?

D'Angelo: Too much. Recently I spent over 70 minutes listening to a pirate play continuous music hoping a voice announcement would come after the next song -- no such luck.

There are always stations that are elusive to ID. I spent over 2 hours listening to the Venezuelan on 5049 kHz when it first came on trying to get an ID. I came close but had to report it as an unIDed Venezuelan. Sure, I would have been a happy DXer to ID the station, but you can't always get that ID the first time you hear a new one.

Sams: On average I don't spend a lot of time on unIDs, unless I think a new country or a really rare catch is at stake. Of course, you don't always know what is at stake, so I do make it a habit to write down unIDs and check them each day I'm at the radio.

As far as how much time I spend on them, it really depends upon whether a particular unID entices me to stick with it.

Sheedy: Time spent on a station hangs on a couple of premises - my attention span and the possible rarity of the station. Sometimes I can zombie out on the Voice of Upper Lower Funghoolistan - I keep 1 1/2 ears working and can either take sketchy notes or just tidy the shack, or investigate the contents of the fridge.

If it seems pointless to tempt deafness wading through the QRM, I might note the beast down and return at a future date (the log notes normally have colorful adjectives and adverbs in them) If the situation doesn't improve over 4-6 sessions, I can let it slide (and yes, I've missed a few that way: Dif. R. Huanta comes to mind, so it's not necessarily too wise to quit).

Occasionally an unID will intrigue me to the point of monomania. I can, if necessary, spend a few hours per day, and days at a time, listening to mush, whistles, and the odd bit of spoken audio. These rarely pan out, but irrational behavior can't be explained.

Forum: Thanks for sharing these insights with us. Do you have any other DXing tips or techniques you'd like to describe, or closing comments?

D'Angelo: I'm glad the DXers Forum gave me an opportunity to participate. In closing I would just like to repeat that preparation, knowledge, patience and time are the main ingredients in developing into a good DXer. There are no shortcuts. The "accidental" first time logs are the result of hard work.

Sams: I wouldn't want the newcomer to the hobby to get the impression here that this is all serious business. This is just a hobby and should be enjoyed. When you find yourself DXing just to pump up the totals then you may be headed for "burn out." A 2-3 week break away from the radio about every 3 months or so helps me break the cycle and inject new enthusiasm.

It's fun to be serious about this hobby, but it should always be just that: fun.

Sheedy: You're welcome. Just remember that DXing "secrets" are just that..and take a lot of this "advice" with a big helping of salt. It's only a hobby, hi...just kidding. Thanks for the chance to mingle with the heavies. Comments (good or ill) solicited..and thanks to Rowland for putting his reputation on the line by letting me yak...



Easy Listening

Editor: Alex Batman, 4636 Alvin Dark, Apt. 2, Baton Rouge, LA 70820

SUNDAY

- 1315-1330 Book Corner (Radio Norway International). Appears irregularly on Sundays and features a Norwegian book each time with an English translation. Nice show for literature buffs. (21.705. Repeated at 1615 on 15.310/21.705).
- 1410-1415 Footprints in Southern Africa (Radio RSA). Features early explorers to Southern Africa or those in early days who made their mark upon the continent. Past programs have featured the first Dutch sea captain to establish a way station at Cape Town, an architect of the 19th century, and Sir Cecil Rhodes. (25.790/21.590. Repeated at 0210 on 9.615/9.580 /6.010).

MONDAY

- 1225-1230 Propagation Report (Radio Australia). Every day but Sunday Radio Australia offers a brief report on propagation conditions for the preceding day, includes readings from the Ottawa 10-CM solar flux index and the Fredericksberg "A" Index for geomagnetic disturbances. Also includes a forecast for the following day. (9.580).
- 0225V-0240V Profile (Radio RSA). Each week as part of "Africa South", Radio RSA interviews a notable South African: man or woman, black or white. Past interviews have featured black and white political leaders, a pioneering woman doctor in South Africa, and South Africa's leading feminist. (9.615/9.580/6.010).

TUESDAY

- 2120-2140 Economic Review (Radio Yugoslavia). A review of economic activity in Yugoslavia and between Yugoslavia and foreign countries. Past programs have featured auto manufactures, refrigerator production, the conversion of land into a tourist attraction, and Yugoslavias governmental inspired "economic reforms." If you're not naturally interested in economics, this is a sort of "copper wire production in Bulgaria" type of program. (15.105/11.735/9.620. Repeated at 0020 on the same frequencies).
- 0200-0230 Music del Ecuador (H.C.H.B.). Traditional Ecuadorian music (none or few Indian folk songs unfortunately), hosted by Jorge Sandrano who is both personable and knowledgeable but who doesn't seem to share my own taste in music, however. As with all H.C.J.B. programs there is a certain section of religious commentary which you may either enjoy or merely put up with. (15.155/11.775.9.745).

WEDNESDAY

- 2150a-2210a Cairo Magazine (Radio Cairo). Actually this program is directed to Europe not North America. It would be clearly audible here if not for the atrocious modulation problems that make one wonder whether the show is good enough to put up with the poor audio quality. Features news of cultural events in Egypt, recipes for Egyptian food, Arabic songs, sports and weather. (9.900).
- 0215-0230 Horizons (Voice of Free China). An interview with at least one expert in a field either political, economic, or social in Taiwan. Past programs have included a discussion of whether Taiwan would be served by declaring itself an independent state and a discussion of proposed legalized gambling in the R.O.C. The program has proven to be interesting or boring depending on the night's topic, but on the whole the interesting shows outnumber the boring ones. (5985/9.680/11.740).

THURSDAY

- 1230-1240a Business Horizons (Radio Australia). A discussion of topics related to business and technology in Australia. Past programs have featured interviews with an exporter, the president of a rental car company, and features on new technical devices for guiding small aircraft or detecting wind shifts for the farmer. (9.580).
- 1247a-1255 Musical Roundabout (B.R.T.). An example of emphasis on classical music in this program is how Paul Rand produces short features on concerts and festivals in Belgium, complete with brief excerpts of the music itself. Probably too short a program; one that would merit expanding. (17.555).

FRIDAY

- 1310-1330 Focus (Voice of America). Half hour analysis of topics of current interest, including fighting between Christians and Moslems in Lebanon, student unrest in China, the awarding of the Pulitzer prize to John Paul Vann: A Bright and Shining Lie, and the 50th anniversary of the block buster year of 1939 for the movies, Gone with the Wind, The Wizard of Oz, etc. Top quality programming. Monday - Friday.
- 0430-0445 Here's Humph! (BBC). Fifteen minute jazz cameos, each week tied together by a single theme, such as different styles of jazz singing, the use of the mute, unusual horn and wind instruments in jazz, etc. Good for jazz lovers. (5.975/9.915).

SATURDAY

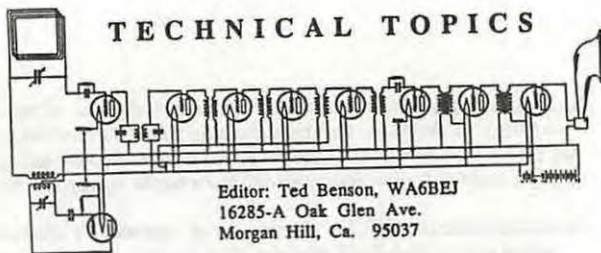
- 0030-0100 Composer of the Month (BBC). Each month features a large selection of works by a single composer. Past months have included Handel, Berlioz, Staviniski, and Mendelssohn. Excellent for classical buffs since there is a good bit of information as well as music. (5.975/6.175/ etc..)
- 0330-0340 Spotlight on Africa (Radio France International). Each week features a brief analysis of a different African topic, such as treaty violations in Namibia by SWAPO, South Africa's upcoming presidential elections, or cross-national rioting in Senegal and Mauritania. (7.280).

* * *

FOR SALE: Sangean ATS-803 in excellent shape. Includes power adapter and antenna plug. \$125.00. Ken MacHarg, 3813 Utica Pike, Jeffersonville, IN 47130.

FOR SALE: InfoTech M600A RTTY decoder and M300C keyboard. M600A has the parallel print option. Both in good shape with cartons, cables, and manuals. \$425.00 negotiable. Also Palomar LA1 loop amplifier with loops for 150-400 kHz and 60 mb. Both in very good working order. \$135.00 negotiable. I am upgrading my gear and need some cash! SASE to Mike Agner, 2513 Cheshire Drive. Baltimore, MD 21207. No phone calls, please.

FOR SALE: Back issues - FRENEX 1/86 to 9/88, \$18.00. Speedx 1/86 to 12/88, \$20.00. WRTVH 1979 to 1987, \$35.00 the set or \$5.00 each. Monitoring Times, complete set, 1982-88, \$125.00. RCMA Newsletter, complete set, 1975-88, \$125.00. Popular Communications 9/86 to 12/88, \$22.50. Shipping included. Ralph Stern, Box 1295, El Granada, CA 94018. Phone (415) 728-7204.



Editor: Ted Benson, WA6BEJ
16285-A Oak Glen Ave.
Morgan Hill, Ca. 95037

BALUNS ARE NOT THINGS FULL OF HOT AIR

This may be true, but much that is said about baluns *is* full of hot air! Want the simple truth about baluns? Then read on...

The name "BALUN" is a contracted description of what the device actually does. It provides a match between BALanced line and UNbalanced line (BAL-UN). Oh, no... We're not headed for some long discussion about transmission line theory and all that math, are we? Not to worry. What we will discuss are the bare fundamentals of impedance and antenna matching. I promise it will be painless, and using what we discuss might well improve your antenna's performance, while saving you a little money in the process.

SOME BACKGROUND

In the early days of radio, coaxial cable was unheard of, and most transmission lines were "balanced lines." This type of line is still in use today, and resembles a wire ladder. In fact, it is often referred to as "ladder line." But it is more than the just the shape of the feedline that makes it balanced. As figure 1 shows, in balanced line the antenna current flows equally in both halves of the antenna and feedline. In theory this current flow is equal and opposite in each half of the antenna and feedline at any particular time. This flow of current produces an electrical field (similar to a magnetic field) which in the feedline would normally represent wasted energy. Why wasted? Because any energy that doesn't make it from the transmitter to the antenna (or the antenna to the receiver) is wasted, and energy radiated from the feedline is just such lost energy. A marvelous thing happens in balanced feedline, though. Note in figure 1 that current in each half of the feedline flows in opposite directions. This means that the electrical field generated by each half of the feedline is also in opposite directions. The fields cancel each other, with a net radiation of zero! This effect is only accomplished if the feedline is truly balanced. It can only be balanced if its impedance is matched to that of the antenna. Most antennas using balanced line are designed so that the antenna impedance matches the feedline impedance (note, however, that some antennas, such as the off-center or end-fed Zepp intentionally utilize the feedline as part of the antenna - but these are exceptions and won't be considered here).

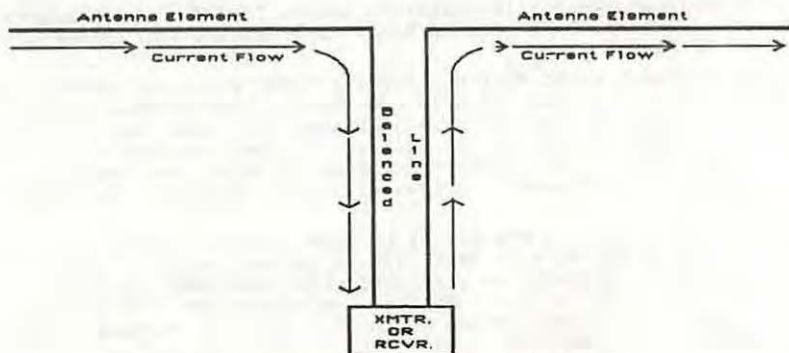


Figure 1. Antenna/Feedline Current Flow

WHY BALANCED LINE?

Now that we can buy coaxial cable down the street, why still use balanced line at all? For a very good reason: balanced line, when used with a tuner or "transmatch," allows an antenna to be used with efficiency over a huge range of frequencies. O.K.. So why use coaxial cable at all? There are several reasons. Coaxial cable, shown in figure 2, has an outer shield. This shield is normally grounded, meaning that the cable doesn't pick up electrical noise as it winds its way into your radio room - and unlike ladder line coax doesn't have to be kept away from metal surfaces, such as rain gutters and vent pipes. The cable is also less likely to try to function as an antenna, again because of the shield. Coaxial cable is smaller than ladder line, and can easily be passed through a small hole in a wall. Best of all, coaxial cable can be obtained in either the 50 or 75 ohm impedance that today's receivers are equipped to handle. Ladder line, on the other hand, comes in impedances between 200 and 600 ohms - you cannot connect it directly to your radio. Most tuners designed for balanced line actually contain a balun to match the balanced line to 50 or 75 ohm coax receiver inputs. But why is coax unbalanced? The field that is generated by current flowing in the center conductor cannot get through the shield, and so it cannot cancel the field generated by the shield. This makes the line unbalanced.

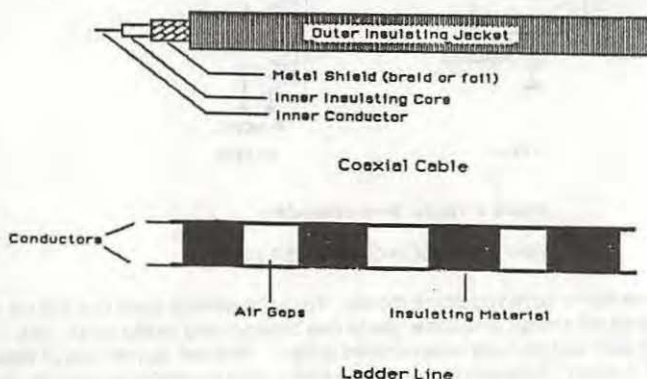


Figure 2. Coax and Ladder Line

BACK TO BALUNS

Now that we know a little more about feedlines and antenna current, let's look more closely at the balun. A typical balun consists of a doughnut shaped powdered iron or ferrite (a ceramic material) core called a toroid (there are some people who have nothing better to do than thinking of weird names for geometric shapes - the earth is an "oblate spheroid," and the doughnut is a "toroid"). We are familiar with the core of a common transformer - it's usually in the shape of an "H" or "8." A transformer wound on a toroid has some unique qualities. Because of its shape, a toroidal transformer doesn't radiate any wasted energy, nor does it pick up any nearby, undesired energy. Any fields generated or picked up externally to one side of the coil are cancelled by equal and opposite fields on the other side. The windings of a toroidal transformer can be spaced to minimize added capacitance between the windings. Such capacitance could cause the transformer to work better at some frequencies than others - and we want something that will work equally well all across our desired frequency range. The windings of a toroid are typically bi-filar (two stranded) or tri-filar (three stranded). The toroidal transformer uses special combinations of bifilar and trifilar windings, reversed windings, and taps to alter the phase relationships of signals on each half of a transmission line or antenna to make them equal and opposite, while also providing any impedance matching required. Figure 3 shows some schematics for typical baluns.

As mentioned before, ideal antenna performance occurs when the feedline and antenna are balanced. If using balanced line, we can't connect directly to our receiver because it needs a lower impedance, unbalanced input. If using coax, the receiver is happy, but we lose energy connecting the unbalanced coax directly to the balanced antenna. Here is where the balun comes in handy. With balanced line, we use a balun with an impedance ratio of 4:1 (for 200 ohm to 50 ohm) or 12:1 (for 600 ohm to 50 ohm). Not only will the balun match the impedances, but it will also match the balanced feedline to the unbalanced receiver input. When using coax, we put the balun at the antenna. Typical antennas such as the dipole or inverted V have impedances from 50 to 75 ohms. So we use 1:1 (50 ohm to 50 ohm) or 3:2 (50 ohm to 75 ohm) baluns. Note that the 50 ohm to 75 ohm ratio is really 2:3 - transformer ratios are usually written with the larger number first. If the antenna is 50 ohms, and the feedline is also 50 ohms, why do we need a balun at all? Remember, we are not just trying to match impedances, but also balanced to unbalanced items. A 1:1 balun matches balanced to unbalanced, but provides no impedance changes.

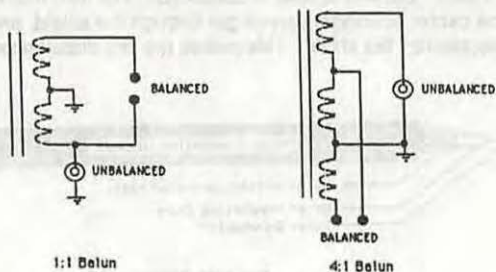


Figure 3. Typical Balun Schematics

WHAT'S IT GOING TO COST ME?

I promised earlier to save you some money. We have already seen that baluns can save you precious signal energy, and allow you to use cheaper and easier coax. But commercial baluns can cost up to several hundred dollars. How can buying one of these save you money? It won't. Fortunately, you don't need a 2KW transmitting balun for receiving. There are many sources of ready-made low-power baluns for receiving, as well as kits for winding your own (a list of sources appears at the end of this column). Winding your own is easy, and only requires that you treat the toroid with care - if it is dropped it will return to its natural state - powdered!

By using the balun with your existing antenna and coax you will almost certainly find an improvement in signal strength. If you were accustomed to hearing images (particularly broadcast band) or other interference you will be surprised how much of it disappears. You may also discover new signals in previously "dead" band segments. This is because the performance of a mismatched antenna system fluctuates wildly from frequency to frequency. A balun may help you to tame this problem.

Balun suppliers (parts, kits, and assembled units):

Amidon Assoc., 12033 Oswego Dr., N, Holleywood, Ca. 91607

Palomar Engineers, Box 455, Escondido, Ca. 92025

The Radio Works, P.O. Box 6159, Portsmouth, Va. 23703

Toroid Corp. of Maryland, 6000 Laurel-Bowie Rd., Bowie, Md. 20715-4037

NASWA Awards Program:

Awards Chairman: John M. Kapinos, 86 S. Quinsigamond Ave., Shrewsbury, MA 01545

Greetings and welcome to the June 1989 NASWA Awards Page. The following folks have earned NASWA Awards recently:

- Rowland ARCHER, Raleigh, NC: Senior DX Centurian - 180 country endorsement
Edward J. CICHOREK, Somerset, NJ: Antarctic DXer
Andrew F. RUGG, Montreal, PQ: DX Centurian with 125 country endorsement, All Voice of America DXer, Senior Radio Moscow DXer
Joe ZOBRO, Hancock, MI: Maple Leaf DXer, Soviet Sphere DXer
Sheryl PASZKIEWICZ, Manitowoc, WI: Master Soviet Sphere DXer, Senior DX Centurian - 180 country endorsement, North American Continental DXPert, Senior Ecclesiastic DXer - 35 station endorsement
Richard DAVIS, Portales, NM: All Germany DXer
James W. EVANS, Germantown, TN: Senior DX Centurian
Rev. John C. ECKERT, Collegeville, PA: DX Centurian-125 country endorsement, North American Continental DXer, Senior China DXer, Soviet Sphere DXer
Donald J. WEBER, Westlake, OH: All Voice of America DXer, Maple Leaf DXer, All Continent "QRP" DXer (50 kw)
Garie J. HALSTEAD, St. Albans, WV: Senior Radio Moscow DXer
Dustin BRAHN, Kansas City, MI: Senior Radio Moscow DXer
Guy CONNOR, Philadelphia, PA: World Wide DXer
Don HOSMER, Dearborn, MI: Antarctic DXer
John HUNIWELL, Barnegat, NJ: Senior China DXer, Australian DXer (10 sites)
Cris HAZZARD, New Hope, PA: Senior European DXer
Joe FARLEY, Downers Grove, IL: Antarctic DXer, Maple Leaf DXer, Senior Radio Moscow DXer, European Continental DXPert
Kris FIELD, Ambler, PA: DXer de Pacifica, World Wide DXer
Robert M. WEISS, Fairfax, VA: Senior British Commonwealth DXer
Charlotte BROOKS, Auburn, CA: Ecclesiastic DXer, World Wide DXer
Robert L. LANDAU, Secacus, NJ: European Continental DXer, North American Continental DXer, World Wide DXer, Ecclesiastic DXer
Don MOORE, Athens, OH: South American Continental DXPert, Arab World DXPert, Senior Venezuelan DXer, Senior Peruvian DXer, Senior Radio Moscow DXer, Australian DXer - 10 sites, Master China DXer
John SGRULETTA, Mahopac, NY: Australian DXer - 10 sites, Master British Commonwealth DXer - 60 countries
Randy COUPAL, Littleton, MA: Senior European DXer, World Wide DXer
John G. CONNOR, Philadelphia, PA: Ecclesiastic DXer
William BLIGHT, Baltimore, MD: All Continent "QRP" DXer, World Wide DXer
John M. FISHER, Chelmsford, MA: Senior DX Centurian
Tom LASKOWSKI, South Bend, IN: All Continent "QRP" DXer (10 Kw)

I am pleased to advise that all Awards applications received here through May 15 have been processed. Thanks to all of you for your kind patience and understanding in what had been a very difficult time for me. No room for "kap's comments" this time as we are limited to one page every other month. See you in 60. Take care.

Best, Jap (5/18/89)

the **CPRV** page

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PERU

LONGITUD AL OESTE DE GREENWICH 12° 3' 5"
 LATITUD: 7° 5' 30"

We received your report on 11/11/38. We agree with our report. We know how do you receive us every Saturday after 10 p.m. we play a complete Opera. We will be pleased if you recommend us to your friends.

Remain in our service as DX. OM

Antonio P. Vasquez P. Gerente

YV1BC

BROADCASTING CARACAS

DATE OF YOUR REPORT: Feb. 12/38
 FECHA DE SU REPORTE: Feb. 12/38

DATE OF OUR TRANSMISSION: Feb. 12/38
 FECHA DE NUESTRA TRANSMISION: Feb. 12/38

YOU HAVE HEARD US!
 We are pleased to certify that your report about reception of our station is correct, and in proof of it we extend this verification.

¡JUSTED NOS HA OIDO!
 Nos place certificar que su reporte sobre recepción de nuestra transmisión es correcto, y en prueba de ello, extendemos esta verificación.

Trusting that the information given in this booklet will be of interest to you, we remain,
 Very cordially yours,
 Muy cordialmente

BROADCASTING CARACAS

John F. Friedlie, DIRECTOR
 Sabery Park, N. J.

CAS-VENEZUELA S. A. 193

Su recepción de fecha 29 de noviembre, 1946 en 6385 Kcs. OK

Datos sobre la Estación.
 Potencia: En 6350 Kilociclos: 1000watts

H I I X

TOBOS LOS DIAS ON EXCEPCION DE LOS
 DOMINGOS DE 2.00 PM. A 6.00 PM. Y DE 6.30 A 10.00 PM.
 LOS DOMINGOS DE 2.00 PM. A 6.00 PM.

Observaciones: *[Handwritten signature]*

GRACIAS POR SU ATENCION

R. SALADIN
 DIRECTOR DE RADIOCOMUNICACIONES.

South of the border this month, with Radio Internacional, Peru, heard on 9330 (though the QSL says 9520); YV1BC, listed as 6080 but actually heard on 5800; and HI1X on 6385. +++ If you're interested in protecting your QSL's after you have gone to that great DXpedition in the sky, send a business size SASE to CPRV Registered Collections Coordinator John C. Herkimer, 3233 East Ave., Caledonia, NY 14423, for full info. 73--JB.



Listeners Notebook

BRUCE MacGIBBON, 2295 JUNIPER AVE., GRESHAM, OR 97030

Hello! My name is Bruce MacGibbon. I'm as surprised as you are that I am doing this column now in FRENDX! I am 42 years old, married with 2 children Carrie and Mark, ages 13 & 10. Currently, I am a house husband, having worked for the Federal Government for almost 13 years. I listen to Shortwave Radio 10-15 hours a day on a Kenwood R1000 modified by David Newkirk and also have a Radio Shack DX 440. Having an interest in putting my listening time to good use for the benefit of others, I Edit/Publish "The DX SPREAD" plus I edit a column for "SPEEDX" called "Continuous Tuning". I also have time to involve myself with my Children in their activities. So, you can see I am kept busy. My telephone no. is 503-667-0833 and you may reach me between the hours of 1400-0600. It is indeed an honor to succeed Glenn Hauser who has devoted many years to make 'Listeners Notebook' the reference that it is. My objective with this column is to be enthusiastic about Shortwave Radio as possible and give you the best information, I can compile so you too can enjoy Shortwave Radio like I have over the past 24 years.

Note: Probably for this month only there will be no BBCMS information that you are used to due to a change of Editors. All Tentative HF Information is via the Australian Radio DX Club's, "DX Press" of 27/4 compiled by Bob Padula. This information is copyright and should only be used in Hobby Publications according to Bob. So, on with the news!

INDONESIAN SURVEY 1989 PUBLICATION - Includes a listing of stations in frequency order, together with transmitting power, location by town and province, and details of monitored schedules. The Survey fully updates and expands the excellent 'Fine Tuning' 1988 Indonesian Survey. There are also two maps showing Indonesia's provinces, and locations of major RRI stations. Also included is a listing of all known active shortwave stations grouped according to location. The 1989 Indonesian Survey will cost DXers within Australia \$4 plus \$1 postage and packing. Prices for people outside Australia are: US \$5 delivered seammil, or US \$7 delivered airmail. You can also pay by IRCs, and prices are 8 IRCs seammil, or 11 IRCs airmail delivery. Payment is also acceptable in equivalent amounts of other currency. All orders should go to: OZ DX (Peter Bunn), 19 Jillian Avenue, Highett, Victoria 3190, Australia. (via OZ DX Edit. No. 43 May 89)

AFGHANISTAN - Radio Afghanistan has been noted to be using 4940 ex 4760 from around 13-1930. Voice of Homeland is aired on this outlet from 1430 to 17. This is probably the channel 2 Home Service and is probably used for other languages, which were aired over 4450 before switching to 4760 at the end of 1988. Kabul's regularly heard domestic frequencies are 3965, 4740, 4775, and 7200, listed to operate 0130 to 1930. Voice of Homeland Kabul (Pashto: Do vatan gazd, Kabul) 0130-0230 is on 6125 (strong) and 4775 (feeble signal) (Supratik Sanatani, Aligarh, India via OZ DX Edit. No. 43 May 89). Radio Afghanistan Tent. HF Broadcasting Sked 7/5-3/9: Txers of 100, 50, and 7.5 kw are listed: 6075 0130-0530 40 (100 kW); 6085 0130-0430 40 (7.5), 07-1730 40 (7.5); 6100 1530-2030 40 (100); 7200 0130-20 40 (50).

ALBANIA - Radio Tirana EE broadcasts easily heard by William Blight, MD: 2330 9440; 0230 9500; 0330 9500. (Thanks for telephone call!)

AUSTRALIA - Radio Australia announced on 17/5 they are currently testing on 6020 Brandon site from 08-14 & 20-21. Also testing on 11770 to Fiji, Cook Islands, Tonga, and Western Samoa. Would like feedback on reception(bmm).

CHINA - June Highlights of Radio Beijing: China Anthology: 1851 saw the outbreak of the largest peasant uprisings in China--the Taiping Revolution which Hong Xiuquan led against the imperial powers of the Qing Dynasty. The rebels established "The Taiping Heavenly Kingdom" with Nanjing as its capital. The revolution spread to 18 provinces in China and last for 14 years shaking the rule of the Qing Dynasty and dealing severe blows to foreign aggressors. On the 4th of June "China Anthology" will mark the 125th anniversary of the death of Hong Xiuquan with a program about this brilliant peasant revolutionary leader.

Listeners' Letterbox: China is one of the largest countries in the world and the habitat of numerous plants and animals. In our "Listeners' Letterbox" program on June 11th, we will describe some of the rich flora and fauna of this extensive country. On June 18th, "Listeners' Letterbox" will talk about the history of mathematics in China, and some of its outstanding mathematicians.

Music from China: On June 3rd, "Music from China" will have a profile of Yan Weiwen, who has distinguished himself in singing competitions in China. The program tells how this former dancer successfully switched careers to become a singer.

Music Album: "Music Album" in June will start a series on some of China's best-known children's performing troupes. The first edition on June 4th features the Chinese Folk Instrumental Orchestra of the China Children's Centre in Beijing.

Travel Talk: Beijing, the capital of the People's Republic of China attracts tourists from all over the world with its long history, rich historical relics and brilliant ancient architecture. The Forbidden City, the Summer Palace and the Ming Tombs are the most commonly visited places, but this time, "Travel Talk" will show you around some new tourist attractions in Huairou, a suburban county to the northeast of Beijing. Join us for this armchair tour of the newly renovated Great Wall at Mutianyu, the picturesque Yanxi lake and the ancient Red-snail temple. Our tour starts on June the 3rd with Radio Beijing's regular feature "Travel Talk."

Competition for the 40th anniversary celebrations of China:

October 1, 1989 will be the 40th anniversary of new China. To mark the occasion, Radio Beijing is organizing a quiz called "knowledge about 40 years of new China". The quiz is split into 10 sections with questions about different aspects of China. You will be able to answer them all if you listen to our "Listeners' Letterbox programme, which is broadcast every Sunday and repeated on Tuesdays. From June, the programme will provide the clues you need to complete the quiz.

The first and second prize winners will be chosen according to how many correct answers they gave, and all the participants will receive a special Radio Beijing souvenir. The deadline for entries is October 31. So here are the questions.

1. When was the founding of the People's Republic of China proclaimed and by who? Name the current Chinese communist party chairman and the country's premier?

2. What is the total land area of China? How many provinces does China have? What is the name of China's newest province?

3. What is the population of China? How many minority nationalities live in China?

4. How many countries have established diplomatic relations with China? When and where was the latest Sino-Soviet summit held?

5. When did China begin to carry out reforms and its policy of opening to the outside world? How many special economic zones has China established?

6. What were the four major inventions of ancient China? Where is China's present day satellite launching base?

7. What is the most popular traditional Chinese physical exercise? Which international games will take place in China in 1990?

8. When was Radio Beijing's first broadcast? How many languages does Radio Beijing broadcast in now?

9. When will Hongkong be returned to China?

10. Which emperor first unified China? Who was the last emperor?

Those were the questions. Remember, the deadline for entries is October 31. We hope you join in the competition. Good luck! (via Chen Lifang, Audience Relations, English Dept, Radio Beijing)

Nei Menggu PBS: Recent monitoring reveals that the CC Network is heard 0150-0550 on 9520 and 11705, and 0950-1525 on 3970, 4000,

5982v. On Sa/Su, broadcasts are extended to 1545. The Mongolian Network is noted from 0130-0530 on 9715v and 11865v, and from 0940-1500 on 3930 and 6197v. Further work remains to be done for determining the schedule of the morning services. Guanxi BS: has the Cantonese programs at 12-13, 13-1330 and 1330-14 on 5050. This was originally believed to be the Bai Dialect, according to Hiroshi. (Hiroshi Fujita, Osaka, Japan via ARDXC's 'The DX Press' Shortwave Station News 26/4 compiled by Bob Padula and Mick Ogrizek)

COLOMBIA - 5075, 0513, Caracol, SS, Ad then M talk//4755 & found nothing on 5095 on 13/5(bmm) 5095, 0155-0203, Caracol, M in SS, then EE ID "This is Caracol, Colombia" etc. News in SS @02 on 1/5 (John Tuchscherer, WI) 5095, 0701, Caracol, SS, M talk "Noticias Caracol" @0702. Vocal @0705 then W&M talk. @0707 singing ad @0710 & 0711 M "Caracol Noticias de Colombia"//4755 on 3/5 (bmm) 17737NF, 2352, Radio Nacional de Colombia, Bogota, SS, M w/talk then brief music & M talk on 5/10. Who knows where they will end up next. (bmm)

COSTA RICA - 5030, 0514, R. Impacto, SS, LA vocal on 13/5 (bmm) 5044.1, 0202-0213, R. Impacto, News in SS and mostly about Panama Elections on 8/5(John Tuchscherer) 5044, 0455, R. Impacto, LA vocal. @0459 QRM from RCI is mixing w/them. @0501 M w/ID//6140 on 15/5 (bmm)

CZECHOSLOVAKIA - 15540NF, 0058, R. Prague, IS & ID in various in languages over co-channel R. Moscow. @0101 M announced this as 44th Anniversary of Liberation Day then into news//11990 noisy 10/5 (bmm)

DENMARK - Final Radio Denmark Sked to 3/9: 09-0952 Japan 25850; 10-1052 Greenland 15165; 11-1152 S. Eur, 12-1252 Australia/Far East, 13-1352 E. Asia, 14-1452 India on 25850; 15-1552 ME 15165; 1630-1730 Greenland 25850; 18-1852 ME/Afr, 19-1952 Eur/Afr, 20-2052 Greenland/Eur, and 21-2152 Australia on 25850; 22-2252 SAM, 23-2352 ECNA, 0000-0052 Caribbean, 01-0152 WCNA on 15165. (via ARDXC's 'The DX Press' Shortwave Station News 26/4 compiled by Bob Padula and Mick Ogrizek)

Jonathan Mark's interview with Jorgen T. Madsen, Head of Radio Denmark's SW Dept. on Radio Nederland's Media Network 19/5:

JM: Say Jorgen are you still planning to work together with your colleagues at Oslo?

Madsen: That's what we are planning to do. At least, we have reached an agreement with, saying that we should rent half of their spare time. JM: What's stopping you doing it now? Madsen: First of all, we have to have the agreement approved by the Danish Government because they are the ones who have to pay for it. So it's fair that they have a say whether this agreement should be good or not, and secondly ...we have had some severe cutbacks in Danmarks Radio as a whole and because of ...jobs have been freed. We haven't been able to fill them out. JM: But as for the moment, the transmitter atsite in Copenhagen? Madsen: It's still on the air. Ya, that's what they tell us. The listeners have some difficulties in hearing it but the idea that site should be shut. JM: But assuming all goes well, how soon could the relays from Radio Norway begin? Madsen: If we are quick, we can start from July 1st but I don't think it will last no longer than until the Sept. 1st. JM: But your basic goal in life remains the same to serve Danish people living abroad rather than trying to do foreign languages as well? Madsen: Ya, that's, that's that the Danish language programs that we are planning for at this moment. But, I hope that now we have solved the transmitting problems at least, I hope we can take up the question of foreign programs on the Danish Service as well. My idea is that we should do it in collaboration with the other Nordic Countries with Norway and Sweden. Note: It was also mentioned that Radio Denmark is dropping QSL Cards from June due to budget cuts.

FEDERAL REPUBLIC OF GERMANY - via May/June R. Deutsche Welle's "Tune-In" Pub, the EE Sked is: NA 01-0150 6040, 6085, 6145, 9565, 9735, 11865, 15105; S.Asia: 02-0250 1548, 7285, 9615, 9690, 11835, 11945, 15235, 17700; NA: 03-0350 6085, 9545, 9605, 11810, 15205; East Central & S. Afr: 04-0450 7150, 7225, 9565, 9765, 11765 & to NA on 15265. NA: 05-0550 5960, 17875. Asia & the Pacific: 09-0950 6160, 11945, 17780, 17875, 21650 (also S. Asia), 21680 (also S. Asia). East Central & Southern Afr: 09-0950 9650, 11785, 21600. West Afr: 11-1150

15410, 17765, 17800, 21600. East Central & S. Afr: 15-1550 9735, 11965, 17810, 21600. S. Asia: 16-1650 1548, 6170, 7225, 15105, 15595, 17825, 21680. West Afr: 19-1950 11785, 11810, 13790, 15390, 17810. Asia and the Pacific: 21-2150 9670, 9765 (also S. Asia), 11785, 15435.

Radio Free Afghanistan: 0230-03 Pashto, 03-0330 Dari: all on 17895G(50), 15370H(250), 15115G(250), and 11770G(250). Central Asia Service - Radio Liberty: 22-2230 Taj, 2230-0030 Kaz, 0030-0130 Tuk; 0130-02 Taj: 15370H(350); 15130B(100); 11770G(250); 9660G(250); 2330-01 Kir: 11970P(250); 15445P(250); 11815G(250); 9505G(250); 00-0030 Uz: 11825G(250); 15215B(100); 9520L(100); 7245B(100); 10-1030 Taj, 1130-12 Kir, 12-1230 Tuk, 1230-1330 Uz: 21510H(250); 21539G(250); 15370L(100); 17750H(250); 1330-1430 Kaz: 21510H(250), 17895P(250), 15370L(100); 17750H(250); 1430-15 Taj, 15-16 Uz: 21510H(250); 15170B(100); 15370L(100); 17750H(250). Languages and txer codes are: Kaz-Kazakh, Tur-Turkmenian, Taj-Tajik, Kir-Kirghizian, Uz-Uzbek. Txer sites: H=Holzkirchen (West Germany), B=Biblis (West Germany), G=Gloria (Portugal), L=Lampertheim (Spain) (via ARDXC's 'The DX Press' 26/4)

FINLAND - R. Finland Pub Sked 26/3-23/9: Eur, ME, Africa: 0630 Daily 11755, 9560, 6120; 1405 Daily 17800, 15185, 11925; 1830 Daily 15185, 11755, 9550; 21 11755, 6120. N&SAm: 0230-0257 15185, 11755; NA: 11-1115, 12-1215, 13-1315 M-F 21550, 15400; Sat & Sun 13-14 on 21550, 15400; Australia, S&E Asia: 08-0815 Daily 21550, 17795; 0830-0845 Daily except Sunday 0830-0855 17795, 15245; 21-2125 11945, 11755. (via Eric Swedberg, OR)

FRANCE - Excerpts of interview with head of RFI's EE Language Section with Jonathan Mark's on RN's 'Media Network' Program on 12/5: RFI: Well, we have several new things going for us right now. We've just increased by 45% our program to Eastern Europe in Russian, Romanian, and Polish and Serbo-Croat. We have 8 hrs daily of programs now in languages other than French to Eastern Europe instead of 5 hrs 30, and in FF to Eastern Europe, we're now broadcasting 19 hrs a day instead of 15 hrs a day. We've also started a new program in English to SE Asia notably to India from 16-1630 daily 13 meters at 21780. (Ed. Sounded like he said 16 but they are on at 14) and I can go on and on. We have other things as well, for instance, since April 1st, we have a new arrangement with the NHK, the Radio of Japan. They are relaying for us 6 hrs per day of programs in French to Korea, China, Vietnam, Cambodia and Laos and still in Japan, we have an arrangement with the cable TV of Tokyo. The CTT, who are now broadcasting 24 hrs per day of RFI in French and we have a new telephone news service in Tokyo, a 3 minute news broadcast everyday that anybody in Tokyo can call. They pay for the call plus 10 yen of a special charge. Then their's the G Wave FM Radio Station in Tokyo which is now broadcasting a program that we produce here of a 1/2 hr per day of European music plus news. JM: Is that in English? RFI: No, that's in French. French songs and other European songs. Then their's a French voice and a Japanese announcer with a voice over. Beginning in August, we will be improving our broadcast to Africa by the use of a 5th transmitter at Moyabi in Gabon which will provide us with 30 hrs, 30 freq hrs a day. In other words, we will be able to use additional freqs for 30 hrs a day more in various languages, in French, English, and Portuguese and we're also renting 7 freq hrs per day on Afrique #1. So it's a total of 37 freq hrs per day towards Africa that we will be adding to our capacity. JM: I understand, too that there is an idea to split the French Service to Africa into two services. RFI: Not exactly just the French service. What we're thinking of doing hasn't been decided yet. It's still in the project stage. We're thinking about creating what we call an RFI No. 2 in which for several hrs a day we will broadcast special programs to Africa in English, in Portuguese, and in French. An hr in English, an hr in Portuguese and I think it's 5 hrs as things now stand in French. JM: When will that start? RFI: We don't have a start-up date yet. Probably towards the end of the year. 21780, 1403, RFI, EE under WCSN on 13/5 (bmm)

GABON - 15475, 2055*, Afrique #1, FF on 15/5. Some days 2050* (bmm)

GUAM - AWR Asia/KSDA Sked 7/5-24/9: 0000 EE 15125, Mandarin 15225; 01 Burmese 15125, Mandarin 15225; 02 EE* 11700, Mandarin* 15225; 03

Mandarin# 11700, Mandarin* 15225; 04-09 Mandarin* 11700, Mandarin* 15225; 09 Mandarin# 11700, Mandarin 11980; 10 EE 13720, Mandarin 11980; 11 Indo 13720, Mandarin 11980; 12 Filipino(1) 13720, Mandarin 11980; 13 KK 13720, JJ 11980; 14 Burmese 13720, Mandarin 11980; 15 Indian@ 13720, Mandarin 11980; 16 Indian(2) 13720, EE 11980; 17 Sign Off; 20 KK 13720, Mandarin 15225; 21 JJ 15310, Mandarin 15225; 22 Indo 15125, Mandarin 15225, 23 EE 15125, Mandarin 15225. *=Broadcast Saturday & Sunday only on these freqs. #-Cantonese & Shanghainese on Saturday & Sunday only. @=Sun,Wed,Sat--Tamil; Mon,Thu--Malayalam; Tue,Fri--Marathi; (1)=Sat,Tue,Fri--Tagalog; Sun,Thu--Ilonggo; Mon,Wed--Cebuano; (2)=Sat,Tue,Thu,Sat--Hindi; Mon,Wed,Fri--Telugu.(Direct) KTWR's announced EE Sked from 7/5: Australia: 0930-11 11805; Far East: 0805-0930 15210; India: 15-1635 except on Monday 15-1705 11650(bmm)

INDIA - All India Radio has made a few frequency changes for some of its regional station broadcasts: AIR Kurseong 7230 ex 6100 0630-1030; AIR Ranchi 7125 ex 6140 07-0940; AIR Calcutta 7210 ex 6010 0630-10. (Supratik Sanatani, Aligarh, India via OZ DX Edit No. 43 May 89) AIR has also increased its Nepali transmissions due to a dispute with Nepal. Now 0130-0230 & 07-08 on 9630, 7145, and 14-15 6140, 10330. (via Jose Jacob, India via Victor Goonetilleke, Colombo, Sri Lanka on Radio Nederland's Media Network 19/5)17387, 1020, AIR, EE, M announcer introduces traditional Indian vocals, UTC time check//fair 15155 and 17740NF(fair+) on 4/5 (Ralph Famularo, Japan)

INDONESIA -4607 RRI-Serui, *1956-22 last hrd & 10-1530*; 4699 RKIP Surabaya *2153-23 last heard & 1040-16* (occ. to 1610* & occ. AN); 4719.5 RRI-Ujung Pandang *2058-2345 last hrd.(app. here eves, too for Ramada..Dan Sheedy); 4753.5 RRI-Ujung Pandang 0940-1610*; 4864 RRI-Medan still inactive.; 4774.8 RRI-Jakarta *22-2345 & *10-17*; 4789.7 RRI-Fak Fak *1956-22 & 0915-14*; 4805 RRI-Kupang 2030-2315 & 0940-1516* (varies w/length of final news); 4845 RRI-Ambon *20-22 & 0940-1135*; 4856 RRI-Palembang *22-0025 & 10-17*; 4871 RRI-Wamena *2053-2145 & 0920-1216*; 4875 RRI-Sorong poss. heard once from 0940-10. 4900 RRI-Surakarta *1048-1710*; 5046 RRI Yogyakarta *2130-0000 & 10-18*; 5055.5 RRI-Nabire *1950-2130 & 0940-1259*; 5257 RRI-Sibolga 0940-20* (varies to 2140 or 22); 5501 RRI-Biak *2040-2130 & 0940-1602*; 5974 RRI Pekanbaru 0810-15* ex 5894; 5987.8 RRI-Manado 12-15*, but apparently irregular. (via Craig Tyson, Hammersley, Western Australia via John Bryant, OK in "Fine Tuning" 517, dtd 7/5)

IRAN - Tent. HF Broadcasting Sked 7/5-3/9: Sites are A-Ahwaz, K-Kamalabad, Z-Mashhad. 5985 K50 0230-2030; 6030 K500 19-2230; 6080 K500 1545-2130; 6115 2500 02-06, 0645-12, 15-18, 1845-22; 6165 A500 02-06, 09-12, 1230-18, 1845-2145; 6175 K500 0230-0730; 7110 M500 02-06, 0645-12, 15-18, 1845-22; 7155 K500 0230-0730; 7190 K500 18-20; 7215 K100 0230-15, K500 1545-2130; 7235 M500 02-06, 0645-12; 9575 K500 0930-12; 9635 M500 15-18, 1845-22; 9745 K500 0330-0530; 9765 K350 0530-0730, K500 2330-0130; 11715 K500 0930-12; 11780 K500 0230-0730; 11790 K500 1030-1545; 11805 M500 02-06, 0645-12, 15-18, 1845-22; 11825 M500 02-06, 0645-12, 15-18, 1845-22; 11860 A500 02-05, 09-12, 1245-18, 1845-2145; 11875 A500 02-06, 09-12, 1230-18, 18-2145; 11895 K500 1630-1930; 11905 2500 02-06, 0645-12, 15-18, 1845-22, K100 1530-2130; 11940 K500 0930-12; 11955 K100 1315-2130; 15310 K250 24-hours; 15315 K100 0230-13; 15365 A500 02-06, 09-12, 1230-18, 1845-2145; 17730 K350 0730-1530. *Note the single registration for the 50 kW transmitter on 5995 at Kamalabad.

IRAQ - Tent. HF Broadcasting Sked 7/5-3/9: Sites are: B=Babel, S=Salah Al Deen, A=Abu Chraib. 6175 S500 15-21; 7130 B500 0130-0630, 10-14, 15-21; 7180 A250 02-22; 9510 B500 1330-22; 9535 A250 18-22; 9545 B500 02-22; 9595 S500 0230-0630, 10-14; 9695 S500 15-21; 9705 S500 03-08, A250 0930-15; 9715 A250 03-08, 14-23; 9770 S500 19-23; 11740 S500 04-05, 16-17; 11760 B500 16-22; 11770 S500 05-08; 11780 S500 16-22; 11795 S500 08-12; 11805 S500 0000-02; 11860 S500 03-08; 11945 S500 0000-05; 11960 S500 06-09; 11970 S500 03-08, 14-22; 15105 S500 05-10; 15150 S500 06-11, 16-22; 15170 S500 06-10, 18-22; 15355 B250 02-08; 15385 S500 08-12, 19-22; 15400 A250 03-08, 14-22; 15415 S500 18-22; 15430 S500 08-12, 19-22; 17720 S500 15-22; 17830 S500 06-12; 17880 S500 08-12. 13660NF, 2057-2150*, R. Baghdad, EE, W w/Orchestral music program. @2147 W giving sked but couldn't catch copy due to

sudden burst of noise. @2148 W w/address and NA 2149-2150 but open carrier to 2215* on 9/5 & on 15/5 EE broadcast from *1954. (bmm)

ITALY - Some recent information about private stations: European Christian Radio, Ravenna, add 9435 at 1415-1530 Mon-Sat; 08-11 Sun. The alternative outlet remains 7360. Radio Italia International 7140 (formerly Radio Spoleto International) has reactivated. Power is 500 watts, but it operates irregularly. Address: Vicolo Volusio No. 1, 06049 Spoleto. Phone: (743) 32748. Radio Europe, Milan 7294. Address: C/o Play DX, via Davanzati 8, 20150, Milan. Broadcasts Sat to Mon 08-12 with 100 watts. Plans to test on 27827 from 12-15. Will answer correct reception reports with a stencil QSL for 2 IRCs. Italian Radio Relay Service, Milan. The General Manager is Ing. Alfredo Cotronei. At present they operate on 9860, Sundays only, from 08-1330. Transmitter power is 10 kW. (Play-DX via Geoff Cosier in OZ DX. No. 43 May 89)

JORDAN - Tent HF. Broadcast Sked 7/5-3/9: 500 kW, at Al Karanah: 7155 1430-2330 37/38; 9530 1430-2330 39-41; 9560 1430-2330 6-8,27,28; 9575 1730-1930 28-30; 9665 15-23 38,39,47,48,52; 11805 0330-1414 39-41; 11920 0630-1415 10,11,37,38; 11940 18-23 38,39,47,48, 0330-0630 38,39,47,48; 11955 0330-0630 28-30, 0630-1415 6-8,27,28; 15405 14-17 12-14,38,46; 15435 2130-2330 38,46,47; 12-14 38,46,47.

KOREA - Radio Korea's announced EE Sked on 5/13: Eur: 08 7550, 13670; 18 15575; 2030 6480, 15575. American: 06 11830, 9570 (Note: Neither heard here due to QRM,bmm); 14 9750, 15575; 2330 15575. ME/Afr: 11 15575; 16 9870; 2030 7550. SE Asia: 14 9570; General Service: 06 7275; 16 5975. (bmm)

KUWAIT - Radio Kuwait Pub Sked to 2/9: Gulf Area: 6055 02-23 Main AA Program; 9750 08-10 Persian & 10-1530 Main AA Program; 9840 1530-18 Main AA Pgm; 11990 0630-23 Main AA Pgm; ME: 7120 1830-2130 Main AA Pgm; 9840 02-1530 Main AA Pgm; 11990 0630-23 Main AA Pgm. NAfr: 9840 1530-18 Main AA Pgm; 9880 16-2130 Main AA Pgm; 11990 0630-23 Main AA Pgm; 15495 02-05 HQ Pgm & 05-23 Main AA Pgm. E.W.& C. Afr: 17850 04-06 Main AA Pgm. S.Afr: 11665 04-11 Main AA Pgm; 18-21 EE. Far East: 15345 02-05 HQ Pgm & 05-08 EE; 15495 02-05 HQ Pgm & 05-08 Main AA Pgm; 17885 09-11 Main AA Pgm; East & SE Asia: 15345 02-05 HQ Pgm & 05-08 EE; 17895 03-0630 Main AA Pgm & 16-18 Persian. Europe & NA: 9840 1530-18 Main AA Pgm; 11665 04-11 Main AA Pgm & 18-21 EE; 15505 07-13 Special AA Pgm & 13-22 Main AA Pgm. SAm: 11990 0630-23 Main AA Pgm. Australia/New Zealand: 9840 1530-18 Main AA Pgm; 11665 04-11 Main AA Pgm & 18-21 EE; 15345 02-05 HQ Pgm & 05-08 EE; 15495 02-05 HQ & 05-23 Main AA Pgm; 17885 09-11 Main AA Pgm. Note: Please send your future reception verification/QSL to: The Controller of Receiving & Frequency Management, 14th Floor; Ministry of Information; PO Box 193 Safat; 13002 Safat, Kuwait. (Direct)

MALAYSIA - Latest Developments and Updating WRTH 89 and other Major Publications: With the arrival of the new year 1989, several changes took place with the radio broadcasting times and these were inadvertently left out from many radio publications and other radio sources. I list out herewith the changes made and provide corrections and additions where applicable. Firstly, it has been proposed that by 1990, the organizational pattern of our domestic radio services will no longer be as it is currently: Malay/Bahasa Malaysia service (National Network-White), EE (Blue Network), CC (Green Network) and Tamil (Red Network) but will be as follows: Radio 1-7 ie Radio 1 will be the Bahasa Malaysia service on 24h, Radio 2 the EE service, Radio 3 the state radio service, Radio 4, the FM Stereo service, Radio 5 the CC service, Radio 6 the Tamil service and Radio 7 the Aborigines service ('Orang Asli' or Native People). Earlier in the year, it was proposed that Radio 2 be the FM Stereo service, Radio 3 the EE service and Radio 4 the local regional broadcast but note the change now. All broadcasts are also planned to come on in FM Stereo then and will have at least a total of 18h broadcast time per day each.

Domestically currently, three MW/FM regional stations will be set up soon in Seremban (capital of the state of Negeri Sembilan), Shah Alam (capital of Selangor state) and Kangar (capital of Perlis) - with the setting up of these three stations would mean that by then all

states would have had a radio station of its own whereby it'll be able to broadcast its own programs for listeners in its respective states-obviously in line with the proposed state service (Radio 3) come 1989 though currently several hours are also allocated with transmissions from regional stations with broadcast for their respective areas.

Now on to the broadcasting time changes: The EE service which is audible overseas on 7295 now transmits Mon-Thurs 22-01, 05-06, 09-16; Fris 22-06, 09-16; Sats/Suns 22-16; On Mon-Thurs when the EE service is not on the air, there are broadcasts from Educational Radio (Radio Pendidikan) ie at 01-05, 06-09 during school days while during school term holidays broadcasts are trimmed down to 01-02, 06-07 only (school holidays now fall during April, July & Oct, Nov). Beginning Jan 23, the CC service and Tamil service started using separate frequencies on FM, formerly they had to share the same frequency (they still do on MW!). The 1st phase covered states of Perak, Selangor, Negeri, Sembilan, Pahang, Melaka, and Johore while the 2nd will cover the rest of the country. The freq for Selangor, Negeri, Sembilan and part of Pahang are 106.7MHz(CC) and 96.3(Tamil) while for Perak they are 92.10(CC) and 98.90(Tamil) and finally, Melaka and north Johore have 100.4(CC) and 103.3(Tamil). Currently on SW, the CC domestic service can be heard on 6025(correction to WRTH89 pp 216 transmission in CC Mon-Fri should be 22-01(not 02)-note that from 01-02 (Mon-Thurs) has educational programs for schools in CC while the Tamil service is heard on 4845. The Capital City (Radio Malaysia Ibu Kota) broadcasts are now 22-11 non stop and the FM Stereo service is on 01-16 non stop daily effective Feb 89.

On to the overseas service, the address of the Voice of Malaysia is PO Box 11272, 50740 Kuala Lumpur, Malaysia. All frequencies stated in WRTH 89 as 15285 should read 15295. Note that there is a radio service from Radio Malaysia not listed in the 1989 WRTH which is the RM Orang Asli(Aborigines) service on at 06-08 on 6100(listed in several publications as a transmission from VOMalaysia but it's not!) Another correction to the WRTH as for domestic service News: N in Malay now also at 09 heard on all White, Blue, Green and Red Networks while the EE (Blue) service has an N Bulletin in EE at 1030.

Finally for radio news, the encouraging news is that on Feb 25 this year, the Minister of Information has announced that radio license fees will be abolished soon and discussions are taking place to set a proper date for implementation-this due to the fact that Minister has commented that radio broadcasts are educational and listening to it should be encouraged thus though this will mean less revenue coming in from those fees. Another development is the recent announcement that signboards on highways and Federal roads in the country will in the near future display the frequencies of local radio broadcasts-this to enable travellers to tune in to the local stations. This is expected to take place at the end of the year. Also soon, radio stations will use a sprinkling of local dialects to identify themselves on the air.

Over on TV, several corrections to the WRTH: TV broadcasting times are now: RTM 1 Mons-Weds 08-16+, Thurs 04-17+, Fris-Suns 00-16+; RTM2 Mon-Thurs 09-1630, Fri-Sun 06-1630+; TV3(Commercial) Mon-Wed 0830-16+, Thur/Fri 0630-16+ and Sat/Sun at 01-16+; On Mon-Thu over the same channel as used by RTM 2, educational programs for schools are on from Educational TV(TV Pendidikan) and these are approx 2345-0830UTC. The television license fees will be M\$24 when the radio license fees are scrapped in the near future(currently the combination of both (radio & TV is one) is M\$24 while those also have radios in the car/mobile will have to pay M\$36(M\$12 for car radio) but with the scrapping of the radio fees, this will not be so anymore! (via Lim Kong Jin, Penang, Malaysia)

MONGOLIA - Tent. HF Broadcast Sked 7/5-3/9: Txers at Ulan Bator are listed: 25/50/100/250 kW: 5960 22-16 ND 50; 7150 20-22 43-45 100; 7235 10-16 42,43 100, 10-16 50 50; 7260 22-16 32,33 25; 9560 08-10 46,47,25, 08-1130 46,47,50; 9575 0000-01 42,43,45 50, 1330-15 43 50, 17-18 46,47 250, 18-20 42,43 100, 20-21 42,43 50; 9615 10-12 42,43 50; 9645 11-12 28 100, 1215-13 28 50; 11790 18-19 46,47 250, 20-21 46,47 250;;11855 22-16 32 25; 11870 22-2330 42,43 250, 09-1230 42,43 250; 15305 07-0830 45 250, 13-15 42,43 250; 17790 1830-19 46,47 250, 20-21 46,47 25. 15305, *1445-1515*, Radio Ulan Bator, EE, IS, ID & Sked w/M news w/freq in 25MB not heard. (EE Sked per WRTH-Weekdays

Only) but per announcement starting 8/5 to be extended to weekends and also per announcement by M, request made for letters. 1515* on 6/5 Saturday) (via Virgil Carlson, WA)

NEPAL - Radio Nepal External Service in EE is now heard on 7165 from 1115 to 1145. (Supratik Sanatani, Aligarh, India via OZ DX No. 43 May 89) and via Victor Goonetilleke, Colombo, Sri Lanka on RN's Media Network 19/5, Radio Nepal has dropped 3230 and now heard on 5005, 7165 @ 1145-1715 and Sarath Weerakoon, Sri Lanka in OZ DX No. 43, May 89 says Radio Nepal scheduled 0015-0515, 0715-1015, and 1145-1715 on 7165//5005. 3230 has been dropped, and on Saturdays they operate 0015-1715 without breaks. If Radio Nepal finds that propagation is not very good on the 41 metre band channel, they might use the standby transmitter on 9590, especially during day-time.

NORTHERN MARIANAS - KYOI Final Operating Sked 7/5-24/9: 18-22 9455; 22-02 15405; 02-08 17780; 08-16 9530#. #=Subject to coordination with the Peoples' Republic of China. (via Anne Case of George Jacobs & Associates, Inc.)

NORWAY - RNI's EE Sked 7/5-2/9: (Sundays Only) 06 ME 21725, Pacific 15165; 08 Australia 21730, 15165; 09 Far East, New Zealand, Australia 17840; 12 NA 15325; 13 Eur 9590; 14 S. Asia/Australia 21705; 16 N&CAm 17780, NA 15310; 17 W Afr 25730, NA 17780; 18 E.Afr 21730; 19 Eur 15220; 22 SAM 25730; N&CAm 15190; 24 SA 11845.

RNI's Norwegian Sked 7/5-9/9: Daily except Sunday: 0000 S.Asia/Australia 15230, 15180, SAM 11845; 01 SAM 15310, NA 11850; 02 NA 11850, 9560; 03 NA 15310, 11850; 04 ME 17840, E Afr 15175, NA 15310, 11760; 05 NA/Pacific 15310, 15165; 06 ME 21725, E Afr 25730, Pacific 15165; 07 Eur 9590, Africa/New Zealand 21705, Australia/New Zealand 21730; 08 Australia 21730; 10 Australia 21705, New Zealand 17840; 11 SAM 25730, 17780; 12 NA 17780, 15325; 13 Eur 9590, NA 17840, Far East 17780, S.Asia/Australia 21705; 14 NA 21705, 17840, S.Asia/Australia 21705; 15 NA 17780, 15310; 16 ME 15265, NA 17780, 15310; 17 Eur 9665, NA 17780, W. Afr 25730; 18 ME 15225, NA 17780, W. Afr 21730; 19 Eur 11850, W.Afr 25730, SAM 21730; 20 Eur 11850, W.Afr 25730; 21 Far East 15180, SAM 25730, 21730; 22 SAM 25730, 15265; 23 NA 15325, 15190.

Norwegian on Sunday: 0000 S.Asia/Australia 15230, 15180; 01 SAMn 15310, NA 11850; 02 NA 11850, 9560; 03 NA 15310, 11850; 04 ME 17840, E.Afr 15175, NA 15310, 11760; 05 NA/Pacific 15310, NA 15165; 06 ME/E.Afr 25730; 07 Eur 9590, W.Afr/New Zealand 21705, Australia/New Zealand 21730; 08 Eur/W. Afr 17840, New Zealand 21705; 09 S.Asia/Australia 21730; 10 Australia 21705, New Zealand 17840; 11 Far East 21705, 17780, SAM 25730; 12 NA 17780; 13 NA 17840, Far East 17780, S.Asia/Australia 21705; 14 NA 17840, 21705; 15 NA 17780, 15310; 16 ME 15265, Africa 21705; 17 Eur 9655; 18 ME 15225, NA 17780; 19 Eur/E Afr 21730, W.Afr 25730, SAM 21730; 20 Eur 11850, W.Afr 25730; 21 W.Afr 25730, SAM 21730; 22 Far East 15265, SAM 15265; 23 NA 15235 (via Eric Swedberg, OR)

PAKISTAN - R. Pakistan, Peshawar, Domestic Service now on 9570 @ 14-15 and Azad Kashmir Radio, (Tarakhel, Victor didn't give site(bmm)) dropped 4790, now 7267 1155-1805. (Victor Goonetilleke, Colombo, Sri Lanka via RN's Media Network 5/19), but Azad Kashmir Radio, Muzaffarabad is being heard on 3655 12-1803 with programming in Urdu and Kashmiri, and news relays from Radio Pakistan. This is the original AKR transmitter which is listed to be using 1 kW on 3665 in the WRTH 89. (Supratik Sanatani, Aligarh, India via OZ DX No. 43, May 89) 7095NF, Rawalpindi. Moved here replacing 3955 for the evening transmission between 15 & 1803 & 7175NF, R. Pakistan, Islamabad relaying Peshawar's Pashto pgm from 13-16, replacing 4780. (Sarath Weerakoon, Sri Lanka via 'OZ DX' No. 43, May 89) 15547, 1858, R. Pakistan, Urdu, M w/final announcements then NA & 19* on 5/13(bmm)

PHILIPPINES - Via FEBC DX Pgm on 18/5. Radio Veritas Asia has added a new 2nd 250 kW txer to broadcast to the Indian subcontinent. However, they are erecting 4 new antennas which are expected to be operational in July this year. When these new antennas are available, RVA will introduce a new transmission schedule for its new timings and freqs for broadcast to S. Asia in Burmese, Bengali, Hindi, Urdu, Tamil, Telugu & Sinhala?(Hard to catch that last language, bmm)

QATAR - Tent. HF Broadcasting Sked. Txers of 100 and 250 kW are listed at Al Khaisah: 11785 0245-06 100 kW, 18-22 250; 11820 0245-06 250, 18-22 100; 17705 14-18 100; 17770 06-08 250; 17825 06-08 100, 14-18 250; 21460 09-14 250; 21480 09-14 100; 17825NF, 1613-1657 tune out, Doha, Music bits w/M&W in AA. AA music from 1616. Very good on 20/4 (John Tuchscherer, WI)

SEYCHELLES - FEBA Radio EE Sked: 0432-0505 Sat & Monday to S.Asia on 15325 then on Monday at the same time on 17780. Sundays at 0727-0820 to S. Asia on 15275, 17820; 1458-1610 to S.Asia 11760, 15325 & on Sundays extended to 1612. 15325 until 1625 Mon-Fri; 1731-1804 to East Afr. extended on Fri & Sat to 1824 on 11810. (Direct to Glenn Hauser via GH's 'World of Radio' 18/5)

SRI LANKA - TWR Sri Lanka EE Sked as of 7/5: 0215-0315 S. India 6050; 1430-16 S.Asia 6125; 1515-1615 N. India 11950. Would like reports from S. India to: PO Box 364, Colombo, Sri Lanka. (Victor Goonetilleke, Colombia, Sri Lanka via RN's Media Network 19/5)

SYRIA - Tent. HF Freq Broadcasting Sked 7/5-3/9: The Adra site, using 500 kW is listed: 11765 21-2230 55,58,59; 11895 13-14 28,29,38; 15345 18-22 39,40; 17890 04-0930 39,40; 17865 17-18 28,29,39, 22-0000 12-15; 21630 18-21 27,28,37; 25700 10-17 27,37,38. (via ARDXC's "DX Press" 27/4 by Bob Padula.

TAIWAN - The Voice of Asia was established on 1 January 1979. 200 guests attended the reception party in celebration of the 10th anniversary which was held on 30 Dec 1988. The reception began with a congratulatory speech by Mr. P.P. Tang, president to the B.C.C. The guests learned about the VA from the programme hosts while enjoying the food and the cocktail which was prepared by our Indonesian programme host, Andre. Highlight of the reception was the cutting of the cake by BCC Board Chairman, Kuo Che and all the VA staff members, who were ready to embrace another decade and decades to come, of course with your support. (Excerpted from the V. of Asia Magazine No. 66 via Ghislaine, V. of Asia) V. of Asia's Pub Sked 7/5-24/9: 04-08 Mandarin on 7285; 1050-11 Mandarin on 5980; 11-12 EE, 12-13 Indo, 13-1445 & 1450-15 Mandarin, 15-16 Indo, 16-17 Thai all on 5980, 7445. V. of Asia's Programs: Sunday-Sat News, Festival Asia (optional), Let's Learn Chinese plus Sunday: Pop songs; Mon: Asian Culture; Tue: Touring Asia; Wed: World of Science; Thu: World Economy; Fri: Music Gallery; Sat: Letterbox & songs by Request. (via Ghislaine, Voice of Asia.) V. of Free China EE Schedule as announced on 7/5 & known relay sites are noted: 02-03 & 03-04 5985, 9680 (both via WYFR) to NA, 15345 Japan & Korea, 9765 Australia & New Zealand, 7445 Hongkong and 02-03 11860 Malaysia, Vietnam, and W. Indonesia, 11740 (via WYFR) to Central America and 03-04 11745 to E. Indonesia and the Philippines; 07-08 5985 (via WYFR) NA; 22-23 9955, 15345, 17612.5 (via WYFR) to Europe and 15370 to Australia/New Zealand. (bmm)

TUNISIA - Tent. HF Broadcast Sked 7/5-3/9: 100 kW is listed, from Sfax: 9675 18-0000 9675; 11730 04-0000 100; 11830 17-0000 100; 15225 04-18 100; 17820 04-17 100.

UNITED ARAB EMIRATES - Abu Dhabi Tentative HF Broadcasting Sked 7/5-3/9: Transmitters of 500 kW. 5955 15-2130 39/40; 6195 02-05 39/40; 7280 16-2130 28/38/39; 9655 05-15 39/40; 11815 16-2130 28/38/39; 11965 17-2130 18/27/28; 15115 22-02 7-9; 15135 15-17 18/27/28; 15405 22-02 7-9; 17705 02-04 44/45; 04-06 54/55/58/59; 06-17 27/28; 22-02 7-9. Abu Dhabi Pub Sked: 13605 to NW America, 11965, 9595 to NA 22-24 EE (But Edwin Southwell, UK via 'World News' edited by Noel Green in DSWCI 5/89 says now using 13605//11965 for EE at 22.) AA: 02-06 to N. Afr & 06-16 to Europe on 25900. Beamed 285 & 315 degrees respectively and the 315 is the same as to NAM earlier in the day and 04-06 to Japan beamed 105 degrees on 25670. (Richard A. D'Angelo, Wyomissing, PA via Glenn Hauser's 'World of Radio' 18/5) 25900, 1230, UAE Radio, Abu Dhabi, Martial Anthem talk in AA by W & ME, Flute percussion music on 8/5 & on 9/5 @1220 tune in to 14 tune out//21515 (good signal)//17820 (broadcast QRM), News & talk blocks, martial anthem on half hour marks, ME music vocals, Quaran recited. Marginally fair to poor. (Rufus Jordan, PA)

UNITED KINGDOM - BBC World Service Highlighted Programs via June's "London Calling": Face to Face - This month WS listeners get a chance to hear five of the classic television interviews in the Face to Face series, with John Freeman. Steve Weinman provides the background to a 30-year-old series that proved to be a broadcasting landmark... Evelyn Waugh, recorded in 1960, on 4th, Professor Carl Jung, from 1959, on 11th; Martin Luther King, first broadcast in 1960, on 6/18; Lord Russell better known as Bertrand Russell, from 1959, on 6/25; Lord Reith, first director-general of the BBC, interview heard in 1960, on 2/7. Suns 1401 rep Mons 0630, 1001. Christy's Challenge - Fri 9th 0730 rep 1215, Sats 2130; Dam-Burst of Dreams - Suns from 11th 0215 rep Mons 1445 Thurs 0815. Keeping Faith - During the past 80 years, Britain has provided a haven for many groups of immigrants escaping from religious persecution, political intolerance and cultural isolation. In Keeping Faith, Bernard Jackson explores some of the communities which have made their homes in Britain and discovers how they have managed to maintain their religious traditions while coming to terms with secular life in British cities. - Suns 1615 rep 2330, Mons 0730. Royal London - Fris from 16th (ex 30th) 0730, 1215 rep Sats 2130. Trooping the Colour - Sat 17th 1001, edited highlights 1830, Sun 0230. Time - You can hear Paul Davies's exploration of time in the future, the present or the moment. For the sake of convenience we can label it as Fri 2nd 0730 rep 1215, Sat 2130. Counterpoint - Paul Jones returns to BBC World Service with a new series of "Counterpoint", in which he features some of the best in blues, jazz and pop and talks to performers who create it. - Tues from 13th 0630 rep Weds 1615 (ex 28th), 2105. Malcolm Arnold - One of Britain's most accomplished composers, Malcolm Arnold is first and foremost an orchestral craftsman of exceptional skill. - Fris from 30th 0030 rep 1030, Sun 18th 0101 rep 1201, 1901. Separation - Sun 18th 0101 rep 1201, 1901. Never in My Lifetime - Sun 11th 0030 rep 1130, 1830. Sports - Cricket England vs Australia. Sportsworld takes you to the test matches on every day of play at 1115 and 1345, also 1445 on 22nd. On Sats there's extended coverage between 1345 and 1700. Chris Florence reports direct from the grounds in Sports Roundup at 0939, 1245, 1745 and 2101. Whenever possible, especially between 15 and 17, the latest scores will be given between programmes - 8th. Wimbledon - Sportsworld takes you to Wimbledon every day of the Championships from 26th at 1330 and 1615 for commentary, reports and results on the days' matches. There are up-to-the-minute reports in Sports Roundup at 1745 and 2101 and a full review at 0215 and 0745 on the following day. The Ever-Ready Derby - Christopher Poole previews the Derby with BBC racing correspondent Peter Bromley on the 7th 00145, 0815. There's commentary on the race in Outlook 14-15 on Derby Day, the 7th. Also Daily reports from Royal Ascot can be heard in Sports Roundup from 1745 on the 20th. Sportsworld introduced by Geoff Parker presents live commentary on the Gold Cup on the 22nd @1445.

UNITED STATES - George Thurman in Texas heard World Wide Christian Radio WWCN with tone tests 13/5 on 15690. On 14/5, Glenn Hauser, Enid, OK heard repeated ID tapes from 2224-2248 but nothing else since. (via GH on RCI' SWLD 20/5) KUSW, Salt Lake City, UT. Final Operating Sked 7/5-24/9: 6135 07-11; 6175 05-07; 9815**, 03-05; 9850 11-16; 11695* 01-05; 15650* 16-22; 15580* 22-01. *Out-of-band Operation on non-interference basis. (via Anne Case of George Jacobs & Associates) Note: KUSW runs all night locally on Sat. On 3/4, I heard them s/off @0145* (bmm) KVOH, Rancho Simi, CA Final Operating Sked 7/5-24/9: 11960 04-08; 13695* 01-04; 17775 12-01. *Out-of-Band Operation on a non-interference basis. (via Anne Case of George Jacobs & Associates, Inc.) WCSN, Scotts Corners, ME. Sked 7/5-24/9: 14-16 Europe 21780*; 16-18 S.Afr 21640; 18-20 E.Afr 21640; 20-22 Europe 15390; 22-24 W.Afr 15300; 0000-02 W.Afr 9850*; 02-04 W. Afr 9850; 04-06 S.Afr 9870*; 06-08 Eur 9840*; 08-14 Off Air. *Out of Band Operation on a non-interference basis. (via Anne Case of George Jacobs and Associates, Inc.) WSHB, Cypress Creek, SC. Final Freq Sked 7/5-24/9: 7405* 0000-02; 9455* 02-12; 9465 22-24; 9495* 10-14; 11930 12-14; 11980* 06-08; 13760* 0000-06, 14-16; 17555* 14-16, 20-24; 17855 08-10; 21640 20-22. *Out-of-band operation on non-interference basis. (Anne Case of George Jacobs & Associates, Inc.) WHRI, Noblesville, IN. Final Operating Sked 7/5-24/9: 7355* 08-11; 7365* 0000-06; 9465* 11-15; 9495 0000-08; 9620 06-08; 11790 11-14;

13760* 17-24; 15105 14-18; 17830 18-0000; 21840* 15-17. *= Out-of-band operation on non-interference basis. (via Anne Case of George Jacobs & Associates, Inc.) V. of America Pub EE Language Sked 26/3-23/9 & sites via VOA J-89 Freq Sked: 19-20; 21-01 Morning Broadcasts: E. Asia, SE Asia, Pacific: 19-20; 21-22 Primarily to the Pacific Islands: 9525P, 11965P, 15185P; 22-0000 1575*Bak, 7120P, 9770P, 11760P, 15185P, 15290P, 15305P, 17735P, 17820P; 0000-01 1575*Bak (from 0030), 7120P, 9770P, 11760P, 15185P, 15290P, 17735P, 17820P. 10-15 Evening Broadcast: 10-11 Primarily to the Pacific Islands: 5985D, 11720P, 15425P; 11-12 1143*P, 5985D, 6110P, 7230(not in J89 Freq Sked, bmm), 9760P, 11720P, 15160P, 15425P; 12-15 1143*P(to 1230, 14-15), 6110P, 7230(not in J-89 Freq Sked, bmm), 9760P, 11715P (to 1330), 15160P, 15425P; Sites: D=Delano, P=Pororo/Tinang, Philippines. 15-18 Audible in SE Asia: 1575*Bak (1530-16), 6110P, 9760P(to 17). *MW: 1143 & 1575 to SE Asia. TO S.Asia: 01-03 Morning Broadcast: 7115COL, 7205K, 11710COL, 15160P, 15215P, 15250COL, 17735P. 14-18 Evening Broadcast: 14-15 7125COL, 9645COL, 15205(J-89 Freq Sked shows Kavala, Greece But too ME), 15395COL; 15-18 1575*Bak (1530-16), 7125COL, 9645COL, 9700(J-89 Freq Sked shows Kavala, Greece to ME), 15205 (to 17) (Freq Sked shows this as Kavala to ME), 15260KAV, 15395COL. * = MW: 1575 to Bangladesh, Eastern India. To ME, N.Afr, Eur: 04-07 Morning Broadcast. 04-06 792*KAV, 3980KAV(from 0430), 5995TAN, 6040WOF, 6060WER(from 0530), 7170WOF, 7200WOF, 11925KAV, 15205KAV; 06-07 792*KAV, 1260*RHO, 3980KAV, 5965RHO, 5995TAN, 6040WOF, 6060WER, 6095TAN, 7170WOF, 7200WOF, 7325WOF, 9715RHO, 11805KAV, 11925KAV. 15-22 Evening Broadcast. 15-16 1260*RHO (to 1530), 9700KAV, 15205WOF t/17 then TAN t/22, 15260KAV; 16-1630 792*KAV, 1197*MUN, 1260*RHO, 3980MUN, 9700KAV, 15205TAN, 15260KAV; 1630-17 792*KAV, 1260*RHO, 9700KAV, 15205WOF, 15260KAV; 17-22 1260* (from 21), 6040WOF, 9700KAV, 9760WOF, 11760WOF, 15205TAN, 15260KAV (to 18). * = MW: 792 to SE Eur, 1197 to Central Eur, 1260 to Eastern Mediterranean. Also for listeners in Central and Western Europe: VOA Europe is available 24 hours a day on several cable and FM outlets, and on 1197. medium wave at 0730-18 Central European Summer Time (14-18 Sundays). For more information, listeners in Europe may write to VOA Europe, PO Box 221220, D-8000 Munich 22, Federal Republic of Germany. To Africa: 03-07 Morning Broadcast: 03-0430 621*BOT, 3990MVA, 6035MVA, 7280MVA, 9525MVA, 9575BY, 11835MVA; 0430-06 6035MVA, 7280MVA, 9525MVA (to 05), 9540MVA (from 05), 9575BY; 06-07 3990MVA, 6035MVA, 6080GR, 6125BY, 7280MVA, 9530GR, 9540MVA, 9550BY, 11915. 16-22 Evening Broadcast: 16-18 7195MVA, 9575P, 11920P, 15410GR, 15445MVA, 15580GR, 15600MVA, 17785GR, 17800BY, 17870MVA; 18-19 621*BOT, 7195MVA, 9575P, 11920P, 15410GR, 15445MVA, 15580GR, 15600MVA, 17785GR, 17800BY, 17870MVA, 21485MVA; 19-22 621BOT*, 7195MVA, 15410GR, 15445MVA, 15580GR, 15600MVA, 17785GR, 17800BY, 17870MVA, 21485MVA. * = MW: 621 to Southern Africa. To Caribbean/American Republics: 10-12 Morning Transmission: 10-12 930*QUE (10-1030, 11-1110), 1580*ANT & BLZ, 6030GR, 6165GR, 9590GR. 22-2215; 0000-0230 Evening Broadcasts: 22-2215 (Mon-Fri) 9640GR, 11740GR, 15225GR (World and Caribbean News); 0000-01 Caribbean Programs: 930*RAM, 1580*ANT, 6130GR, 9455GR, 11695GR; 0000-01 Worldwide EE Programs: 5995GR, 9775GR, 9815DL, 11580GR, 11740DL, 15205GR; 01-02 930*, 1580*ANT, BLZ, 5995GR, 6130GR, 9455GR, 9775GR, 9815DL, 11580GR, 11740DL, 15205GR; 02-0230 (Mon-Fri) 5995GR, 9775GR, 9815DL, 11580GR, 15205GR. * = MW: 930 & 1580 to the Caribbean Area. Program Sked for the New Morning VOA EE Broadcasts to the Pacific: Sun: 19 News; 1910 Newline; 1930 Press Conference USA; 21 News; 2110 Communications World; 2130 Press Conference USA. Mon: 19 News; 1910 Newline; 1930 Music USA; 21 News; 2110 VOA Pacific**. Tue-Sat: 19 News; 1910 Newline; 1930 Music USA; 21 News; 2110 World Report. ** = VOA Pacific is VOA's new weekly program of popular music and features especially designed for listeners in Asia and the Pacific. In addition to shortwave, VOA Pacific can be heard on several local radio stations throughout the region. For a list of affiliated stations, listeners in East Asia and the Pacific may write to VOA Pacific, Washington, DC. 20547 USA. Sites: ANT=Antigua Island, BAK = Bangkok, Thailand, BLZ=Punta Gorda, Belize, BOT=Selebi-Phikwe, Botswana, BY=Bethany, Ohio, COL=Colombo, Sri Lanka, DL=Delano, CA, GR=Greenville, NC, KAV=Kavala, Greece, MUN=Munich, Germany, MVA=Monrovia, Liberia, P=Pororo/Tinang, Philippines, QUE=Quesada, Costa Rica, RAM=Radio Antilles, Montserrat, RHO=Rhodes, Greece, TAN=Tangier, Morocco, WER=Wertachtal, Germany, WOF=Woofferton,

U.S.S.R. - Radio Kiev's EE Broadcasts (Spring-Autumn 1989) 7/5-2/9: 18-Europe: 1830 7330, 9560, 9600, 11780 and from 3/9 7150, 7205, 7240, 9600. NA: 2330-24 11790, 12000, 13645, 15180, 15455, 15484 and from 3/9 9610, 9800, 11675, 15180, 17665, 17690 and 02-0230 11675, 11790, 12000, 13645, 15180, 15455 and from 3/9 9610, 9800, 11675, 15180, 17665, 17690. (via Kraig Krist, VA) Radio Station Peace and Progress EE Sked 7/5-2/9: Each transmission is 29 minutes. Eur 20 263; 21 15240, 11989, 9820, 9550, 7420, 7340, 1386. Asia: 14 17645, 17635, 17610, 15220, 11890. SW Asia: 1630 12055, 11910, 11695, 6110, 6135 & 1296. Africa: 1630 17615, 17595, 11775, 11670, 9830. (Bill Mathews, OH via GH's 'WOR' date lost, (bmm) Radio Vilnius: New Sked reads 2130-22 on 666 & 6100 and 22-2230 on 666, 6100, 7400, 9765, 9860, 15420, 15455 & 17665. In EE, the 7400 transmitter is a 500kW unit in the Ukraine. The Mon 22 & Thur. 2130 transmission includes 4 minutes of Esperanto. (Julius Hermans, Netherlands in Noel Green's 'World News' column in DSCWI SWN 5/89) Note: Also JS in same publication says Tallinn now has English Mons 2030-21 on 5925 and 1035. Riga will follow later. Yerevan Armenian & SS 22-23 on 11920 & 11980. New Republic SW relays: Ukraine-Kiev 0215-14 6030, 1406-21 9785; Byelorussia-Minsk 0215-1330 6150, 1335-19 9525; Lithuania-Vilnius 0158-15 6010, 1505-21 9675; Moldavia-Kishinev 0215-1430 6070, 1435-1950 9560; Latvia-Riga 02-14 5920, 1405-21 9695; Estonia-Tallinn 0130-16 6125, 1605-1950 9590; Grzia-Tbilisi 0258-15 7125, 1505-19 15145; Azerbaijan-Baku 02-14 7300, 1405-20 15180; Armenia-Yerevan 0453-1430 7175, 1435-19 15110. (Karel Honzik, Czechoslovakia via DSWCI 4/89) The programs can be heard in Moscow. They are designated for people of non-Russian nationalities living in Moscow and the Central part of the USSR. New on the air are: Uzbekistan-Tashkent 02-1330 9595; 1305-1900 17840; Kazakhstan-Alma Ata 0000-1530 9690; 1535-17 17730; Kirgizia-Frunze 2259-15 9735; 1505-17 17785; Tadzikistan-Dushanbe 2315-13 9660; 1305-1750 17865; Turkmenia-Ashkhabad 0415-1430 9565; 1430-18 17635; Tatar-ASSR - Kazan 0230-14 11945; 1405-18 17810. (Karel Honzik, Czechoslovakia in Noel Green's 'World News' column in DSWCI SWN May 89) Note: Noel Green, UK says 17865, 17840, 17785 and 17635 are the best heard here. 17635 is heard with Radio Peace & Progress pgms in CC til 1430 so not the same transmitter as on 9565. Tikhly Okean monitored frequencies at *0715 on 12/5: 17605, 15485, 15425, 15405, 15180, 13605, 12070, 12050; *1730 only freq heard was 15180. (bmm)

YEMEN ARAB REPUBLIC- Tent. HF Broadcast Sked 7/5-3/9: Radio Sanaa, 300 kW, is registered on 7185 03-07 and 9530 10-14. (In reality, "9530" would appear to be 9780)

YEMEN PEOPLES' DEMOCRATIC REPUBLIC - Tent. HF Broadcast Sked 7/5-3/9: The site at Aden is listed with 100 kW, on: 5970 03-11, 6005 03-22, and 11770 11-22.

YUGOSLAVIA - Radio Yugoslavia @0000 on 15105NF in EE booming in here on 15/5 per telephone call to me from Eric Swedberg, OR. Later in broadcast freqs announced as 7215, 11735, 15105 to W.Eur & NA (bmm)

CLANDESTINE: Radio Iranian Toilers broadcasts via Kabul's transmitters from 1530-1730, using 4775 and 6230. (Sarath Weerakoon, Sri Lanka via OZ DX Edit. No. 43 May 1989) Voice of Muslim Mujaheds of Afghanistan (Voice of Unity), which is pro-Mujahadeen and broadcasts via Egyptian facilities shared with Iran's Flag of Freedom Radio, continues in Pashto on 17540, 15685, and 12230 0130-0225; 12-1225; and 1515-1610. Voice of Unity signs on with a flute interval signal. Apart from attacking the present Afghan government, the station attacks other Mujahadeen factions also, as can be made out by frequent reference recently to 'gaddars' (traitors) and 'shoora' (council of tribal chiefs). This is a reference to the meeting of the various Mujahadeen groups in Rawalpindi, where some of the Iran-bases factions walked out. (Supratik Sanatani, Aligarh, India via OZ DX Edit. No. 43 May 89) Radio Shabati Kurdistan-E-Iran has moved from 3945 to 4890 still at 17-1705v. ID: Aira Dangi Radio Shabati Kurdistan-e-Iran. (Franz Suss via 'Clandestine News' edited by Mathias Kropf in DSWCI SW News 5/89)

See Last Minute Items on next page!

LAST MINUTE ITEMS -

GUAM - KTRW's EE Sked as above. Rest of Sked as of 7/5 is: 2030-2045 Hakka (Mon-Wed)/Swatow (Thu-Sun); 2045-22 Cantonese; 21-22 IN 11840; 21-23 CC 11665; 22-2245 CC 15265; 22-23 IN 15420; 0830-09 RR 11735; 09-12 CC 15195; 09-15 CC 11665; 0930-1030 CC 11710; 1030-12 IN 15240; 11-12 JJ 11840; 12-1330 JJ 9785; 12-14 CC 9590; 12-15 CC 9820; 1330-1345 Hakka (Mon-Wed)/Swatow (Thu-Sun) 11830; 1345-15 Cantonese 11830; 14-1415 Tibetan (Mon-Tue)/UU (Wed)/Nepali (Thu-Sun) 11910; 1415-1430 Dogri (Mon-Tue)/Hindi (Wed-Thu)/Gamit (Fri-Sun) 11910; 1430-1445 Assamese 11910; 1445-15 Santali 11910; 15-1530 Tamil 11910; 15-1530 RR 9895. The EE DX program "Pacific DX Magazine", which includes a monthly ARDXC segment, is on the air on Sat 10 & 1515, Sun 0845. (via ARDXC's 'ADNX' SW Station News compiled by Mick Ogrizek 5/89)

INDIA - Mick Ogrizek, Australia received a QSL from All India Radio Shillong, North Eastern Service for 3255. A new schedule was advised: 0225-1210 on 7190; 1225-1630 on 3255. Address is: AIR, North Eastern Service, Post Box 14, Shillong 793001, India. (via ARDXC's 'ADNX' SW Station News compiled by Bob Padula 5/89)

SWAZILAND - TWR Swaziland Sked t/2/9: 03-0330 Ndebele 3200; 03-0330 SH 7285; 03-0345 Shona 3240; 0335-0350 Somali 11740; 04-0430 GG 3200 & 5055; 04-0430 Chewa 9670; 0430-05 EE 3200; 0430-0515 EE 9670; 0430-07 EE 5055; 0430-0835 EE 7200; 05-0835 EE 11755; 0515-0630 (Sat & Sun) Chewa 9670; 1445-1530 PP 9610; 15-1515 Malagascse 9650; 1515-1545 FF 9650; 1530-1545 Tswana 4760; 1530-1550 UU 15150; 1545-1615 Shangaana 4760; 16-1650 EE 5055; 16-17 EE 11930; 16-17 Chewa 9745; 1630-17 GG 3240; 17-1730 Tswana 3240; 17-1730 EE 9745; 17-1759 SH 11930; 17-18 Zulu 3200; 1730-1745 (Sat & Sun) Pedi/Tswana 3240; 1745-1830 PP 3240; 18-1845 Shona 4760; 1805-1850 EE 11930; 1845-19 Umbundu 7285; 19-1930 Lingala 9550; 19-1945 PP 7285; 19-2030 EE 3200; 19-2115 EE 3240; 1930-20 FF 9550; 1930-21 Xhosa 3200; 20-2015 FF 9550; 20-2030 Ndebele 3200. (Direct via ARDXC's 'ADNX' SWSN compiled by Mick Ogrizek 5/89)

TURKEY - V. of Turkey J89 Engineering Sked: 5980 Turkish 17-21 Balkans; 6120 Azeri 03-04 NW Asia; 6140 Turkish 03-05 Balkans; 7110 GG 18-19 NW Eur; 7180 GG 16-17 NW Eur; 9445 EE 22-23, Turkish 23-03, EE 03-04 NE America; 9460 04-22 Turkish 04-22 W.Eur; 9665 EE 22-23 W.Eur, 17-18 Azeri t/SW Asia; 9685 EE 22-23, 23-03 Turkish t/NW Eur; 9825 GG/EE/FF 19-22 NW Eur; 11775 Turkish 10-22 N. Afr; 11875 Various 10-1230 Balkans; 11925 Turkish 04-09 NW Asia; 11955 AA 09-10, 10-15 Turkish, 15-16 AA t/ME; 15055 AA 10-15 NW Eur (except Fridays); 15105 RR 1430-15 NW Asia; 15160 AA 09-10, 10-15 Turkish (Fridays only), 15-16 EE t/N.Afr; 15200 Turkish 05-09 W.Eur; 15405 Azeri 03-04, 04-09 Turkish t/ SW Asia; 17760 EE 22-23 SE Asia; 23-03 Turkish, 03-04 EE t/SE Asia; 17785 CC 14-1430 Far East, 1230-14 EE/Urdu/Persian t/SW Asia. (Direct from the Turkish PTT via ARDXC's 'ADNX' SW Station News compiled by Bob Padula 5/89)

UNITED ARAB EMIRATES - UAE Abu Dhabi Sked from 7/5: 9595 EE/AA 22-02 NA (See United Arab Emirates above); 9780 NA 0000-02 AA; 11815 ME 16-2135 AA; 11965 Eur 16-2135 AA, 22-0000 EE t/NA, 0000-02 AA t/NA; 13605 N.Afr 16-2135, 22-0000 EE t/NA; 15135 AA 06-13 Eur; 17645 ME 13-16 AA; 17705 Australia 02-04 AA, 04-06 AA t/Japan, 06-16 AA t/Eur; 21515 Australia 02-04 AA, 06-16 AA t/Eur; 25670 Japan 04-06 AA; 25900 N.Afr 02-06 AA, 06-16 AA t/Eur. Station wants reception reports from target areas to be sent to Fawzi Saleh, Technical Advisor, Ministry of Information and Culture, PO Box 17, Abu Dhabi. (via ARDXC's 'ADNX' SW Station News compiled by Bob Padula.)

DXER'S DATES - For June & early July: Algeria - Revolution Day 19/6; Burundi - National Day 1/7; Canada - Canada Day 1/7; Chad - National Day 7/6; China - Communist Party Anniversary 1/7; Denmark - Constitution Day 5/6; Iceland - Republic Day; National Holiday 23/6; Malawi - National Day 6/7; Madagascar - Independence Day 26/6; Mozambique - National Day 25/6; Norway - Independence Day 7/6; Peru - Peasants Day 24/6; Philippines - Independence Day 12/6; Rwanda - National Day 1/7; Seychelles - Independence Day 29/6; Somalia - Independence Day 26/6; South Korea - Memorial Day 5/6; Spain - Kings Day 24/6; Sweden - National Holiday 5/6; Venezuela - Independence Day 5/7; Yemen - Corrective Movement Day 13/6. (via John Bryant, OK) *Butte*



QSL REPORT

Please send reports to:

Sam Barto - NASWA QSL Editor
47 Prospect Place
Bristol, CT 06010 USA

RADIO
TALLINN



- ABU DHABI: Voice of the UAE** 9835 and 11965 f/d folder cd. in 1 mo. (Bar to CT). 21735 same w/ sked. in 14 ds. for 1 IRC. v/s Ahmed Shouly, Controller. (Teruki-JAPAN). 11940, 21735, 11815 and 15510 folder cd. in 3 mo. (Barto). 11965, 9780 and 9630 cd. w/ sticker in 5 wks. (Barto-CT).
- ALASKA: KNLS** 11930 f/d cd. w/ sked. in 114 ds. (Teruki). 6095 f/d cd. w/ ltr. in 20 ds. for ms. (Rugg-QUE). 7355 cd. w/ personal ltr. in 21 ds. for ms. (Bolitho-CAN).
- ALBANIA: Radio Tirana** 6120 f/d cd. w/ lapel pin and sked. in 23 ds. (Klinck-NY).
- ANTIGUA: Deutsche Welle** 6120 f/d form ltr. in 18 ds. direct from the Caribbean Relay Co. Ltd. v/s Gerf Hoef, Company Manager. (Wakisaka-MD).
- ARMENIA: Radio Moscow** 15455 via Yerevan f/d cd. in 6 wks. (Rugg). **Radio Yerevan** 15180 f/d cd. w/ schedule in 81 ds. (Zobro-MI). 15455 cd. in 2 mo. (Bolitho).
- ASCENSION ISLAND: BBC Relay Station** 6005 f/d ltr. in 70 ds. for \$1.00 v/s Neil Johnson. (Zobro-MI).
- ASIATIC RUSSIA: Radio Moscow** 17605 and 17720 via **Petropavlovsk-Kamchatsky** f/d cd. in 2 mo. (Barto). 12050 via **Khabarovsk** f/d cd. in 2 mo. (Barto). 12050, 13645, 17570, 17655 and 17850 cd. in 6 wks. (Rugg). 17825 via **Irkutsk** f/d cd. in 48 ds. (All-en-OK). same in 2 mo. (Bolitho). 9875 f/d cd. in 2 mo. (Barto). 9715, 15200, 17825 and 17890 f/d cd. in 6 wks. (Rugg). 9705 via **Vladivostok** cd. in 2 mo. (Barto). 9705, 17700 17860 f/d cd. in 6 wks. (Rugg). 17590 via **Kenga** cd. in 6 wks. (Rugg). same in 2 mo. (Bolitho). 21690 via **Chita** f/d "Friendship" cd. in 2 mo. (Bolitho). 21790 cd. in 6 wks. (Rugg). 15180 via **Komsomolsk-on-Amur** f/d cd. in 6 wks. (Rugg).
- AUSTRALIA: VNG** 5000 f/d ltr. w/ cd. from their new site at **Llandilo** in 1 mo. w/ sked. * v/s Dr. Marion Leiba, Secretary. (Kusalik-ALB). **Radio Australia** 9710 and 11800 via **Shepparton** f/d "Sheep Station" cd. w/ postcard, sked. and calendar in 41 ds.
- AUSTRIA: Radio Austria International** 13730 and (Teruki). 15410 f/d "Tyrol" cd. in 2 mo. (Barto). 6015 f/d "Traditional Costumes" cd. w/ schedule in 75 ds. (Connor-PA).
- BANGLADESH: Radio Bangladesh** 17870 f/d cd. w/ personal ltr. and coins after my 3rd f/up rpt. in 241 ds. v/s Mr. Tamur Rahman, General Secretary of the International Radio Listeners Club, Konabari, P.O. Box 1111 Nagor-1346, Dhaka. (Field-PA)....He requests aid from radio clubs to replace material lost in the recent floods.
- BELGIUM: BRT** 15515 and 17560 f/d cd. in 51 ds. for a FR rpt. (Rugg). **RTBF** 21560 f/d cd. w/ sticker in 22 ds. (Rugg-QUE).
- BOLIVIA: Radio San Gabriel** 6080 f/d "Certificado" w/ sked. and a large wall calendar in 3 wks. for a SP rpt. and \$1.00. v/s Hno. Jose Canut Saurat, fsc., Director-General. (Howard-CA).
- BONAIRE: TWR** 11930 f/d "25th Anniversary" cd. w/ assorted goods in 32 ds. for \$1.00. (Blight-MD). 11930 and 9535 f/d cd. w/ sked. calendar and poster in 25 ds. (Connor). **Radio Nederland** 17605 f/d cd. in 18 ds. (Klinck).
- BORNEO (Kalimantan): RPDTk2 Kutai** 4340 f/d ltr. after 2 f/up IN * rpts. in 130 ds. v/s Mashud Achmad Wiranata. Prepared cd. also rcv'd. (Kusalik). **RRI Samarinda** 3295 f/d prepared cd. in 35 ds. after 3

via Lobbell
RADIO K'EKCHI'
La Voz Evangélica de las Casas
TGVC
4845 kHz
5 KW
Fray Bartolomé
de las Casas
16015 Alta Verapaz
GUATEMALA
Radiodifusión
Cristiana
de
Calidad

QSL
Acomunes recibí de su amable reporte de recepción en Antillas VV 2R
Radio K'EKCHI' en la frecuencia de 4845 kHz, el día de 18 de 12 de 1988 en su programación
Medida de _____ hora de Venezuela.
Verificación mediante libro de control, se informa ha resultado:
CORRECTO
Deseo que envíe más copias gratis por **radio continental**
[Signature]
Barinas, Venezuela 18 de 03 de 19 88

RADIO CONTINENTAL
VV 1320 KHZ 10 Kw
4940 KHZ 1 Kw
Avda. Mariscal del Poder Ejecutivo Radio Continental Barinas • 5201 Erbe Barinas
VENEZUELA

VENEZUELA 4.75
27
3
CHRISTOPHER R. LOBBELL
POST OFFICE BOX 185,
STONEHAM,
MASSACHUSETTS 02180, U.S.A.



FRET RADIO INTERNATIONAL

 To CONFIRM THAT G-BARES

 WOLFELOW USA, LISTENED

 TO NORTHERN IRELAND'S ONLY

 FREE RADIO SCHEDULE

 18TH DEC 1982 01:25-01:50 GMT.

 Thanks from P.R.I.

Andy Gray

PLEASE NOTE: I wish to thank everyone for sending in illustrations to the QSL Column; however, due to space limitations (6 pages) we cannot run everyone of them. Only the highest quality (B&W contrast) can be utilized. Keep sending them in!

BRASIL: Radio Nacional Tabatinga 4815 cd. in 54 ds. for a PT rpt. and \$1.00. v/s Alvaro Jose Bandeira, Dep'to de Producao. (Rugg).

Radiodifusora Acreana 4880 n/d ltr. in 86 ds. for a PT rpt. and ms. (Rugg).

Radio Cultura 9615 personal ltr. w/ schedule and decal in 68 ds. for a PT rpt. v/s Jose Munhoz. (Terrence-NY).

Radio Pioneira de Teresina ZYG595 5015 p/d ltr. w/ sticker in 1 mo. for a PT rpt. v/s Alci Marcus Ribeiro Borges, Director. (Barto-CT).

Radio Itatiaia 4805 p/d ltr. in 63 in 2 mo. for a PT rpt. Stickers rcvd. v/s Claudio Carneiro, Manager. (Barto).

Radiodifusora do Amazonas 4805 n/d postcard in 7 wks. for a PT rpt. and ms. on my 3rd attempt. (Rugg). prepared cd. w/ stickers in 5 wks. for a PT rpt. and ms. (Wilkins-CO).

Radio Nacional da Amazonia ZYE365 11780 and 6180 2 f/d ltrs. in PT in 1 mo. for a PT rpt. v/s Lucia Emilia M. Fernandes, Gerente. (Barto).

Radio Nacional de Porto Velho 4945 f/d cd. w/ personal ltr. in 2 mo. for a PT rpt. and ms. v/s Eudson Monteiro de Lima. (Sgrulletta-NY).

Radio Nacional de Macapa 4915 f/d cd. w/ personal ltr. in 2 mo. for a PT rpt. and ms. Sticker rcvd. v/s (same as above). (Sgrulletta).

Radio Nacional de Manaus 4845 f/d prepared cd. w/ ltr. in 54 ds. for a PT rpt. and \$1.00. (D'Angelo-PA).

Radio Guaiaba 11785 cd. in 16 ds. for a PT rpt. (Terrence-NY).

BULGARIA: Radio Sofia 11750 f/d cd. w/ schedule in 224 ds. (Healey-RI).

BURKINA FASO: Radio Burkina 4815 p/d form ltr. in 32 ds. for a FR rpt. and 1 IRC. (MacHarg).

BYELORUSSIAN SSR: Radio Moscow 15350 via Minsk f/d cd. in 2 mo. (Barto). same in 2 mo. (Bolitho). 15320 and 15489 f/d cds. in 2 mo. (Bolitho). 11745 cd. in 6 wks. (Rugg). 15320 and 15480 f/d cd. in 8 wks. (Bolitho)...via Orsha 7420, 15320 and 15480 f/d cd. in 6 wks. (Rugg).

CANADA: CFCX 6005 p/d cd. w/ sked. in 38 ds. for \$1.00. (Connor). p/d cd. w/ ltr. in 45 ds. for ms. v/s John Stubbs, Operations Manager. Addr: 1200 McGill College Ave., Suite 300, Montreal, H3B 4G7. (Wakisaka) cd. w/ personal ltr. in 28 ds. for \$1.00. (Blight).

CRJU 6160 p/d "CBC Centre" cd. in 7 ds. (Connor). f/d cd. in 40 ds. (Zobro). same in 10 ds. for ms. (Weber-OH).

CHINA, PEOPLES REP OF: CPBS 2 4250 f/d "Great Wall" cd. in 23 ds. (Lev-ison-PA).

CPBS Kunming f/d cd. in 3 wks. w/ cassette tape. (Huniwell-NJ).

Radio Beijing 11650 and 15165 via Xian and 6825 f/d "Mao Memorial Hall" cd. in 2 mo. (Barto). 9640 and 11715 f/d cd. in 20 ds. (Levison).

Nei Menggu PBS 11865 p/d cd. in 3 mo. (Barto).

Guangxi PBS 5920 f/d "Kunming Lake in Peking's Summer Palace" cd. w/ schedule in 3 mo. (Barto).

CLANDESTINE: Iran's Flag of Freedom Radio 15555 n/d ltr. w/ station info. in 1 mo. for \$1.00. v/s Dr. Manouchehr Ganji, Secretary General. (Wilkins).

Free Voice of Iran 9400 p/d ltr. via Radio Iran in 2 mo. for a FR rpt. (Barto).

Voice of Democratic Kampuchea 15110 f/d ltr. in 11 ds. after 4 f/up rpts. for \$1.00. v/s Song Theng, 3rd Secretary. (Kusalik).

La Voz de Alpha 66 6666 p/d cd. in 84 ds. for ms. v/s Dr. Diego A. Medina. Addr: P.O. Box 420067, Miami, FL 33142. (Wakisaka).

Voice of the Libyan People 11365 p/d cd. w/ political info. via the Chicago address. in 3 wks. (Barto-CT).

COLOMBIA: Radio Nueva Vida 5567 p/d form ltr. in 5 wks. for a SP rpt. and ms. v/s Marco A. Calcedo O., Director. (Wilkins). prepared cd. w/ ltr. in 50 ds. for a SP rpt. and \$1.00. (D'Angelo-PA).

COSTA RICA: TIRS Radio Impacto 5030 and 10060 p/d ltr. w/ pennant and sticker in 2 mo. for a SP rpt. v/s Hector Requena C., Asesor General. (Barto).

Radio Lira/AWR 9725 f/d cd., w/ ltr. and pennant in 28 ds. for ms. v/s David Gregory. (Rugg).

CUBA: Radio Moscow 6045 via Habana f/d cd. in 2 mo. (Barto). 11840 same in 6 wks. w/ schedule. (Barto-CT).

the trade station
 The Forge, Cramleigh, England, GU8 7BG



6205 Daytime

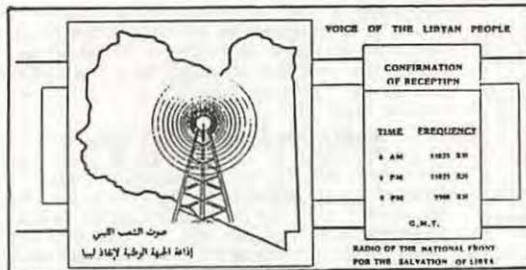
1611 Nighttime

via Rich D'Angelo

- Broadcasting 1st-4th April and from 11th August 1988: 230 watts at 6205 full wave dipole, 1811 directional dipole system.
- We confirm and acknowledge with thanks your reception report for the above.
- On the air to demonstrate the sort of daily service we would like to provide from abroad, at, with a licence, from England.
- Application to UK Home Office for a licence - August 1986.
- Renewed Application - January 1988.

Studio Presentation

Trevor Brink • Holly Robson • Maggie Stevenson
 Andy Burnham • Juliet Mason • Helen Songest
 Reporting
 Eddie Callery • Henry Dukes • Bob Tomahki
 Engineering
 Surrey Electronics Limited



DENMARK: Radio Denmark 25850 f/d "Lovely Land" cd. in 2 mo. (Barto). 15165 f/d cd. in 21 ds. for 4 taped rpt.s. (Blight-MD).
DUBAI: UAE Radio Dubai 17865 f/d folder cd. in 1 mo. for 1 IRC. v/s Ahmed A. Smouly. (Klinck). 21605 f/d cd. in 92 ds. w/ station pennant. (Terrence-NY).
ECUADOR: HCJB 15155 f/d cd. in 1 mo. for 1 IRC and \$1.00. (Berhent-OH). 11775 f/d "Stamps" cd. in 20 ds. (Connor). 17790 f/d "Sketchbook" cd. in 34 ds. (Blight). 6130

- f/d cd. in 21 ds. v/s G. Volshadt. (Calligan-CA). 3220 f/d cd. in 18 ds. (Hart-FL). 11740 same cd. in 29 ds. (Klinck). Radiodiffusora Paz y Bien 4820 f/d cd. w/ ltr. in 222 ds. for a SP rpt. and ms. after a f/up rpt. (Rugg-QUE).
- ESTONIAN SSR:** Radio Tallinn 5925 f/d "Naissaire Island" cd. in 104 ds. for 1 IRC. (Wakisaka). f/d poster cd. in 54 ds. (Radtke-CA).
- ETHIOPIA:** Voice of Ethiopia 9660 f/d cd. w/ large sticker in 47 ds. for ms. (Field-PA).
- EUROPEAN RUSSIA:** Radio Moscow 17645 via Armavir f/d cd. in 38 ds. (Hart). same in 2 mo. (Barto). 12055, 15470 and 21680 f/d cd. in 2 mo. (Bolitho). 7170 via Kazan f/d cd. in 2 mo. (Barto). 6055 cd. in 2½ mo. (Barto). 15540 via Ryazan cd. in 2½ mo. (Barto). 5905 f/d cd. in 53 ds. (Rugg). 7160 and 17665 via Tula f/d cd. in 6 wks. (Rugg). 15490 f/d cd. in 2½ mo. (Barto). 7225, 17600 and 17635 f/d cd. in 2 mo. (Bolitho). 15200 via Kalach-on-Don f/d cd. in 6 wks. (Rugg). 15150, 15560 and 9680 via Moscow cd. in 2 mo. (Barto). 15460 cd. in 2 mo. (Bolitho). 11900 via Serpukhov cd. in 2 mo. (Barto).
 * 12010 f/d cd. in 8 wks. (Bolitho). Zhigulevsk f/d cd. in 2 mo. (Bolitho). RKA75
 * Radio Moscow 16330 cd. in 2 mo. w/ freq. (Barto). RNG38 9105 via Moscow cd. in 2 mo. for USB pgm. in RS. (Barto). RCD33 Radio Moscow 8005 f/d cd. in 2½ mo. for USB pgm. in RS. (Barto). RAN76 Radio Moscow 6890 cd. in 2 mo. for USB pgm. in RS. (Barto)
- FERNANDO POO:** Radio Nacional Malabo 6250 f/d stamped prepared cd. w/ personal ltr. in 63 ds. for a SP rpt. v/s Cipriano Somori Suakin. (Rugg). 6249.5 p/d personal ltr. in 3½ mo. for a taped rpt. (Eckert-PA).
- FRANCE:** RFI 17795 f/d cd. in 55 ds. for 1 IRC. (Berhent). 9715, 11995 and 17795 f/d cd. in 6 wks. w/ schedule. (Barto).
- FRENCH GUIANA:** RFI 9800 f/d cd. in 1 mo. for 3 IRCs. (Calligan). Radio Japan 9865 via Montsinery n/d "Mt. Fuji" cd. w/ schedule and newsletter in 5 wks. (Barto).
- GABON:** RFI 4890 via Moyabi f/d cd. w/ site and schedule in 42 ds. (Hart). Africa # 1 cd. rcvd, but unsure for which rpt. I sent to them. (Weber-OH).
- GEORGIAN SSR:** Radio Moscow 11745 via Tbilisi f/d cd. in 38 ds. (Zobro). 17570 f/d "Friendship" cd. in 2 mo. (Bolitho).
- GERMAN DEMOCRATIC REP:** RBI 9730 f/d cd. in 41 ds. (Connor). Stimme der DDR 6115 p/d cd. in 39 ds. for 1 IRC. (Wakisaka-MD).
- GERMAN FEDERAL REP:** Bayerischer Rundfunk 6085 f/d cd. in 68 ds. for 1 IRC. (Rugg). Sueddeutscher Rundfunk 6030 f/d cd. in 94 ds. for \$1.00. (returned). (Davis-NM). Radio Bremen 6185 f/d "Antenna" cd. w/ sticker in 57 ds. for \$1.00. (Wakisaka-MD).
- GHANA:** Radio One - GBC 4915 f/d cd. in 22 ds. for 2 IRCs. (Calligan). (Harg).
- GREECE:** Voice of Greece 9420 f/d "Meteora Monasteries" cd. in 34 ds. w/ sked. (Mac-GREENLAND: KNR 3999 p/d "Studio" cd. in 2 wks. for an 85 rpt. after 6 tries. v/s Henrik Jorgensen. C/V # 1971. (Palmersheim-MN).
- GUATEMALA:** AWR - Union Radio TGMUA 5981.6 and 17944.8 p/d cd. w/ small pennant in 7 wks. for a SP rpt. (Barto-CT). Radio K'ekchi 4845 large f/d cd. w/ paper pennant in 5 mo. for a SP rpt. and ms. v/s Gilberto Sun Xicol, Gerente (card) and David Daniell, Asesor de Comunicaciones (ltr.) (Wilkins). f/d cd. w/ pennant in 142 ds. for a SP rpt. Response was mailed from Medios Educativos, a.c., Apartado Postal 310, Cd. Satelite, Edo. de Mexico, 53100 Mexico City. (D'Angelo). La Voz de Atitlan 2390 f/d prepared cd. in 5 wks. for a SP rpt. and \$1.00. (Allen-OK). (Berhent-OH).
- HOLLAND:** Radio Nederland 15315 f/d "Transmitter Park" cd. in 19 ds. for 2 IRCs.
- HONDURAS:** HRVC 4820 p/d ltr. w/ cd. in 95 ds. Pennant rcvd. (Lane). HRHM La Voz * del Junco 6075 f/d prepared cd. w/ n/d personal ltr. in 1 mo. for a SP rpt. and ms. v/s Miguel E. Hasbun, Gerente. This after 3 tries on an 84 reception. (Palmersheim-MN).
- HONG KONG:** Radio TV Hong Kong 7290 f/d cd. in 3 mo. (Barto-CT).
- HUNGARY:** Radio Budapest 9835 f/d "Logo" cd. in 49 ds. (Levison-PA).
- ICELAND:** ISBS 13790, 17558 and 15659 f/d "Thingvellir" cd. in 3 mo. (Barto). 17588 same f/d cd. in 2 mo. for \$1.00. (Bolitho).
- INDIA:** All India Radio 7412 f/d cd. in 42 ds. for 1 IRC. (Rugg).
- INTERNATIONAL WATERS:** World Mission Radio 6215 n/d ltr. in 2 mo. via Holland addr. v/s Johan Maasbach. (Barto-CT).
- IRELAND:** Radio Fax 6205 cd. w/ station data sheets in 4 mo. (Barto-CT).

RADIO PANDORA QSL CARD
 THIS IS TO CERTIFY THAT
 (Name): Ma. Gera Bares
 HEARD RADIO PANDORA ON 6210
 ON THE 48M SHORTWAVE BAND.
 ON / /
 WITH A SINPO RATING OF:
S - 1 I - 2 N - 4 P - 4 O - 1

NOTES: Gerry Bishop still finds time to do a little DXing even though the USAF makes demands upon his time. Gerry recently acquired a Collins R-390A receiver to go along with the FRG-8800. Nice hearing from you! John Turnick says that he has persuaded his father to join NASWA. Nine more and you get a free membership - just kidding! John Sgrulletta says that he took a week off from

work to catch up on a few things and to do a little DXing. It just happened to be the week of the Northern Lights - John couldn't even receive WWV! Hi! I'm still laughing...Sam. Also received nice letters from Harold Levison, Ernie Behr and Mike Monaco a new contributor from Bronx, NY.

ISRAEL: Israel Radio International 7460, 9455, 9435, 11588 and 9385 f/d cd. in 3 mo. (Barto). 7462 and 9010.5 f/d cd. in 2½ mo. (Barto). 9800, 9855, 9435, 9010.5 and 11604.8 cd. in 3 mo. (Barto). 13750, 12080, 12025, 11585, 11605, 9800 and 9455 f/d cd. w/ schedule in 3 mo. (Barto-CT).

ITALY: Radio Milano International 6221.3 f/d cd. for 82 reception. Tnx to Dario * Monferini for help w/ this one. (Bares-CT) **Radio Scandinava** 9860 via IRRS f/d cd.

* in 1 mo. for a rpt. to the Malmo, Sweden address. (Bares-CT). **Italian Radio Relay Service** 7160 ltr. w/ station info. in 1 mo. v/s Alfredo E. Cotroneo, G.M. (Barto-CT).

JAVA: RKPDTk 1 Surabaya 3000.5 f/d prepared cd. after 3 f/up rpt. in 39 ds. for an

* IN rpt. and \$1.00. v/s Walujo Soebagio, BE (YB3EE). (Kusalik). **RII Surakarta** 4932 f/d EG cd. w/ IN ltr. in 34 ds. for an IN rpt. and ms. v/s Ton Martono, Head of Broadcasting Section. (Hart). **RII Surakarta** 4899 f/d prepared cd. w/ IN ltr. in 27 ds. for an IN rpt. (Kusalik). f/d cd. in 3 mo. for an IN rpt. on an 83 reception. (Barto-CT).

KAZAKH SSR: Radio Moscow 9610 ans 15230 via Alma Ata f/d cd. in 7 wks. (Rugg-QUE).

KENYA: Voice of Kenya 4934 f/d aerogramme ltr. in 99 ds. for 2 IRCs.

(Rugg). same in 33 ds. for ms. (Field-PA). in 94 ds. for 2 IRCs

(D'Angelo). 6150 f/d ltr. in 7 wks. after 6 tries. v/s Augustine Kenyanjul Galhui. (Allen-OK). 9880 in 150 ds. for \$1.00. (Gavaras-MN).

KIRGHIZ SSR: Radio Moscow 9650, 15420 and 17775 via Fruhiz f/d cd. in 7 wks. (Rugg). 15420 f/d cd. in 2 mo.

KOREA, DEMOCRATIC REP. OF: Radio (Bolitho).

* **Pyeongyang** 11735 f/d cd. w/ pin, pennant and 4 large posters in 10 wks. Report mailed from Canada. (Kohlbrunner-PA). 6576 f/d cd. in 3½ mo. Pennant rcvd. along w/ pin and posters. (Palmerheim-MN).

LATVIAN SSR: Radio Riga 5935 f/d cd. w/ schedule in 6 wks. (Bolitho).

LESOTHO: BBC 3255 n/d cd. in 5 wks. (Barto-CT).

LESSER SUNDAS: RPD2T Sumbawa 3775 p/d two page personal ltr. w/

* f/d prepared cd., photos in 1 mo. for an IN rpt. on an 83 reception. v/s Drs. Syahrudin Ahmad. (Sparks-CA).

LIBYA: Radio Jamahiriya 15450 f/d ltr. w/ sked. in 113 ds. for 1 IRC. v/s Mohamed Swidan, Director. (Teruki). 11825 f/d cd. in 19 ds. via Malta. (MacHarg).

LITHUANIAN SSR: Radio Vilnius 7400 f/d cd. w/ sked. and ltr. in 116 ds. (Healey). same w/ decal in 88 ds. v/s E. Butkus, Deputy Chief Editor. (Terrence-NY).

LUXEMBOURG: Radio Luxembourg 15350 f/d cd. in 20 ds. (Lane-IL).

MALAYSIA: Voice of Malaysia 15295 p/d ltr. in 3 mo. v/s Mohd. Safian Bin Abdul Ghani, Controller. (Barto). same w/ schedule in 4 mo. for \$1.00 (returned) (Eckert-PA).

MALI: Radio Beijing 11715 f/d cd. in 25 ds. w/ pennant and badge for \$1.00. (Berhent).

MALTA: Voice of the Mediterranean 9765 f/d cd. in 1 mo. (Sparks). same in 39 ds.

for ms. (Gaharan-LA). 9765 and 11925 f/d cd. in 2 mo. (Barto). **Radio Mediterranean** 6110 f/d "World Map" cd. w/ sticker in 4 mo. for \$1.00. (Wakisaka). same in 7 wks. for 2 IRCs. (Allen-OK). **IBRA Radio** 7110 f/d "CN Tower" cd. w/ personal ltr. in 34 ds. for \$1.00. (Blight-MD).

MANCHURIA: Hellojiang PBS 4840 2 p/d cds. direct from the station in 417 ds. (D'Angelo).

Harbin PBS 6150 f/d cd. in 2 mo. (Barto).

MEXICO: XEUX La Voz de Veracruz 6020 f/d prepared cd. in 27 ds. for a SP rpt. and 1 IRC. (Hart). **Radio Educacion** 6185 p/d registered ltr. in 66 ds. for a SP rpt. (Terrence)

MONGOLIA: Radio Ulan Bator 4831 via Altai

* f/d prepared cd. w/ site in 84 ds. w/ sked. v/s N. Boldmoro. (Kusalik). 12015 f/d "Logo" cd. w/ schedule in 85 ds. (Rubin-NY).



Radio Gemini

QSL via G. Bares

33 PULLER ROAD
 BOMBOUR
 HEMEL HEMPSTEAD
 HERTS HP11 0JN
 ENGLAND

We thank you for your reception report for our transmission on

SUNDAY 30TH OCTOBER 1985

ON 6240 KHZ. 06:00 - 07:02 GMT

SINPO 32432

"THE SIXTiENTH BIRTHDAY SHOW"

POWER - 150 WATTS



Don't ask. I claim absolute ignorance on this one!...Sam.

International Airport" cd. in 81 ds. for a taped rpt. and ms.(Blight-MD). same cd. in 83 ds.(Lane-IL).

NORWAY: Radio Norway International 21700 via Fredrikstad and 15310 via Sevio f/d "Statfjord C Platform" cd. w/ schedule and sticker in 5 wks.(Barto-CT).

OMAN: Radio Oman 17770 f/d folder cd. in 67 ds.(Teruki).

PAKISTAN: Radio Pakistan 15115 p/d cd. w/ ltr. in 53 ds. (Connor). 15190.9 f/d "Logo" cd. in 6 wks.(Barto).

PAPUA NEW GUINEA: Radio Eastern Highlands 3395 p/d personal ltr. in 21 ds. v/s Kiri Nige, Senior Technical Officer.(D'Angelo).

Radio Simbu 3355 f/d cd. in 8 mo. v/s Fabian Waim, Manager (who would like to receiver souvenirs)(Atkins). f/d cd. w/ sked. in 3 mo.

PERU: Estacion C 6323.6 prepared cd. w/ ltr. in 40 ds. (Barto).

* for a SP rpt. and \$1.00. v/s Ricky Centurion Tapia.(Wilkins). Radio Onda Azul 4800.7 p/d cd. in 1 mo. for a SP rpt. and ms. v/s Mauricio

* Rodriguez R., Jefe de Prod. y Programacion.(Atkins). Radio Amazonas 5060 f/d prepared cd. w/ n/d ltr. in 2 mo. for a SP rpt. and \$1.00. v/s Julia Ochoa Rengifo, Jefe de Prog.(Palmerheim). Radio Atlantida 4790 n/d ltr. in 459 ds. for a SP rpt. and ms. v/s Julio Reategui Trigoso, Gerente.(Rugg-QUE).

PHILIPPINES: Radio Veritas Asia 15465 f/d "Burmese Damsel" cd. in 1 mo. for 2 IRCs. v/s Ms. Labindao. Sticker and pennant rcvd.(Sgrulletta). 11755 n/d cd. w/ schedule and sticker in 6 wks. for \$1.00. (Wallace-MA).

POLAND: Radio Polonia 7270 f/d cd. w/ schedule in 55 ds.(Connor-PA).

RIO MUNI: Radio Africa 9582 p/d cd. in 20 ds. for 1 IRC.(Teruki). 2 cds. in 3 and 6 wks. for rpts. to Malabo and the Calif. address.(Bolitho).

ROMANIA: Radio Bucharest 5990 f/d cd. w/ schedule in 87 ds.(Levison-PA).

SAIPAN: KYOI 11900 f/d prepared form ltr. in 7 ds. for SASE. v/s S. Johnson.(Blight).

SAUDI ARABIA: BSKSA 9720 n/d ltr. in 64 ds. w/ schedule.(Lane-IL).

SCOTLAND: Weekend Music Radio 6317.4 and 6312.7 f/d cd. w/ ltr. and paper emblems in 5 wks.(Barto-CT).

MOZAMBIQUE: Emissora Provincial de Sofala

* 9639 f/d ltr. after a f/up rpt. in 17 mo. v/s Iain P. Christie, Head of External Services.(Kusalik).

NAMIBIA: SWABC 3290 f/d cd. w/ sked. and sticker in 3 mo. (Bolitho).

NEPAL: Radio Nepal 5005 f/d cd. in 2 mo. for ms. v/s R.S. Karki.(Paszkiwicz). same in 16 mo. for ms.(Allen). in 341 ds. for \$1.00. (Radtko). f/d cd. in 16 mo. after 2 registered rpts.(Atkins-AL).

NEW CALEDONIA: RFO - Noumea 7170 n/d "Map" cd. in 48 ds. for 1 IRC.(Teruki).

NEWFOUNDLAND: CKZN 6160 p/d cd. in 21 ds. for ms. v/s R. Knowles, Manager of Regional Engineering. (Wakisaka). same in 37 ds.(Connor-PA).

NEW IRELAND: Radio New Ireland 3905 p/d ltr. in 4 mo. v/s Otto A. Malatana, Manager.(Barto-CT).

NEW ZEALAND: RNZI 15150 f/d "Soccer" cd. in 60 ds. v/s Rudi Hill.(Calligan). 17705 f/d pennant type cd. w/ sked. in 22 ds. for 3 IRCs.(Klinck).

NIGER: La Voix du Sahel 5020 f/d cd. in 46 ds. for ms. and FR/EG rpt. v/s Yacouba Alwali.(Field-

NIGERIA: Voice of Nigeria 7255 f/d cd. PA).

in 34 ds.(MacHarg). f/d "Murtala Muhammed



SEYCHELLES: BBC 11750 ltr. direct from site in 25 ds. for \$1.00 v/s Mr. Peter J. Loveday.(Kusalik)

SOUTH AFRICA: Radio Five 4880 f/d cd. w/ sticker in 1 mo. for \$1.00.(Hart-FL). f/d "SABC" cd. in 28 ds. w/ sticker.(MacHarg). same in 20 ds.(Wakisaka). Radio RSA 9615 and 9580 f/d "Blyde River" cd. in 3 mo.(Barto).21590 21535 and 25790 f/d "Table Mountain" cd. in 3 mo.(Barto). 25790 "White Rhino" cd. in 21 ds. for 2 IRCs.(Berhent). same in 21 ds. (Klinck). 21590 same cd. in 20 ds.(Lane-IL).

Q. S. L.
 Certificado de Sintonia.
 Emisora: "La Voz Evangelica de la Mosquitia."
 A Sr: John C Eckert
 Muchas gracias por su informe de recepcion.
 Frecuencia 4910 KHZ. de fecha 21/11/82
 a las 0226-0242 Horas de Hond.
 Jose Roldan Brown
 Locutor.



SOUTH AFRICA: Radio Orion 4810 f/d cd. w/ schedule in 1 mo. (Rugg-QUE).
SPAIN: Radio Beijing 9690 f/d "Hall of Supreme Harmony" cd. w/ schedule and pin in 1 mo. (Wallace-MA).
SRI LANKA: TWR 11920 f/d ltr. in 124 ds. for 1 IRC.v/s Vic Flaming. (MacHarg). f/d cd. in 2 mo. (Barto-CT).
SULAWESI: RRI Manado 3215 f/d ltr. in 2 mo. for 83 reception. v/s Daniel Narande. (Barto-CT).
SUMATRA: RRI Bengkulu 3265 f/d personal ltr. in 1 1/2 mo. for an IN rpt., ms after a f/up rpt. v/s Drs. H. Hamdan Syahbeni. (Palmerheim).
SWEDEN: Radio Sweden International 15345 f/d cd. in 23 ds. (Klinck). 15345, 17815 and 21615 f/d cd. in 6 wks. (Barto). 21610 f/d cd. in 1 mo. (Levison).
SWITZERLAND: Swiss Radio International 15570 f/d cd. w/ sked. in 26 ds. (Klinck). 6135 f/d "Castle" cd. in 21 ds. for \$1.00. (Berhent-OH).
SYRIA: Radio Damascus 15095 f/d cd. w/ postcard in 7 mo. (Moore-OH). same in 8 mo. * for ms. (Gaharan). f/d cd. in 211 ds. (Healey). 12085 cd. w/ paper flag via registered mail in 485 ds. (Frodge-MI). same in 485 ds. (Eckman-CA). f/d cd. w/ sticker in 221 ds.
TADZHIK SSR: Radio Moscow 12045, 15140 and 21625 via **Dushanbe** (George-NC). f/d cd. in 6 wks. (Rugg). 15140 f/d cd. in 48 ds. (Allen). 12045 cd. in 62 ds. (Wilkins).
TAIWAN: WYFR 15055 via **VOFC** f/d cd. in 1 mo. for a taped rpt. and 1 IRC. (Klinck). 11550 f/d cd. in 28 ds. for a taped rpt. (Blight). cd. in 7 mo. for 1 IRC. (Huniwell).
BSF 15000 f/d cd. in 1 mo. for 1 IRC (returned). (Palmerheim). **Voice of Asia** 7445 f/d cd. w/ sticker in 22 ds. for 2 IRCs. (D'Angelo).
TAHITI: RFO 15170.8 f/d cd. in 3 mo. for a FR rpt. (Barto-CT).
TANGIER: VOA 9760 f/d cd. in 31 ds. for ms. (Blight-MD).
THAILAND: Radio Thailand 9655 p/d "Fruit Market" cd. in 1 mo. after a f/up rpt. and \$1.00. v/s Mrs. Bubpa Laemluang. (Wilkins). burn-ME).
TOGO: Radio Togo 5047 f/d "Globe" cd. in 58 ds. for a FR rpt., tape and \$1.00. (Wash-Tonga).
Radio Tonga - TBC 5030 ltr. in 17 ds. v/s M. Indiran, Chief Engineer. Addr: * P.O. Box 36, Nuku'alofa. (Sparks). p/d ltr. in 16 ds. for \$1.00. (Howard-CA). p/d ltr. in 20 ds. for \$1.00. (Howard-CA).Send a few waves this way....Sam.
TURKEY: Voice of Turkey 9445 f/d cd. w/ schedule and stickers plus pennant in 20 ds. for 1 IRC. (Kelly-MI). **Turkish Police Radio** 6340 f/d cd. in 137 ds. (George).
TURKMEN SSR: Radio Moscow 17740 via **Ashkhabad** f/d cd. in 48 ds. (Allen-OK). f/d cd. in 6 wks. (Rugg-QUE).
UKRAINIAN SSR: Radio Moscow 7150 via **Lvov** f/d cd. in 2 mo. (Barto). 15595 f/d cd. in 38 ds. (Hart). 4860 and 15260 via **Kharkov** f/d cd. in 6 wks. (Rugg). 15260 cd. in 57 ds. (Wilkins). 4860 and 4795 f/d cd. in 2 mo. (Barto). 7230 via **Kiev** cd. in 2 mo. (Barto). 11705 cd. in 2 1/2 mo. (Barto). 11735 via **Vinnitsa** f/d cd. in 45 ds. (Paszkiwicz). 11730 cd. in 2 mo. (Barto). 7115 and 9895 cds. in 2 mo. (Barto). 7310 f/d cd. in 2 mo. (Bolitho). 5980, 15475 and 17810 via **Simferopol** f/d cd. in 2 mo. (Barto). **Radio Kiev** 13645 f/d cd. in 65 ds. (Zobro). 15180 f/d cd. w/ sked. in 90 ds. (Terrence). 11850 cd. in 40 ds. (Lane). 7400 cd. w/ sked. in 152 ds. (Healey). 15445 f/d cd. w/ schedule and report forms in 66 ds. (Levison-PA).
USA: WHRI 6100 f/d cd. in 82 ds. for ms. v/s Loren Holycross. (Hoffman-PA). **WWV** 15000 f/d cd. in 9 ds. (Lane). 2500, 5000 and 10000 f/d cd. in 10 ds. (Connor). **AFRTS** 6030 via **Bethany** f/d cd. in 9 ds. (Wakisaka). **MSHB** 7315 ltr. in 20 ds. for ms. v/s C.E. Evans, Station Manager. (Gavaras). 11700 f/d ltr. in 20 ds. for SASE. (Kusalik). **KGEI** 15280 f/d cd. in 39 ds. w/ sticker. (Lane). **Radio Marti** 11930 f/d cd. in 19 ds. (Lane). **VOFC** 5985 via **WYFR** n/d cd. in 48 ds. for \$1.00. (Berhent). same in 41 ds.

新疆人民广播电台

XINJIANG HOKL RADIYO ISTANSISI

via Father John Eckert

March 25, 1989. Xinjiang People's Broadcasting Station
 Urumqi, Xinjiang
 CHINA

Dear Sir,

Thank you very much for the reception report of our broadcast. The information given is in accordance with our frequency schedule. We hope that you will enjoy our future program.

All our frequency:

Chengde, 3990KHz 4390KHz 4790KHz 5190KHz 5590KHz
 Urumqi, 3990KHz 4790KHz 5590KHz 6390KHz
 Hongqili, 4220KHz 4920KHz 5620KHz
 Kulek, 5440KHz 6140KHz 6840KHz 7540KHz

Feb. 7, 1989. 5204Hz. 2400VTC - 324VTC.

Sincerely yours, Guo Ying 郭颖

Note: For the first time in over 10 years I actually ran out of space. I used some larger style type for the country and the station name but I will go back to the smaller print next issue. All of the QSLs that were not in this issue will be in the next one. Since I was allocated six pages I will have to cut down on the illustrations. Hope you understand. It must be the new spirit in NASWA. For the past few weeks I have received more reports than I have ever seen - especially from new contributors. Something must be going on. If you can find it in your heart, can I get one more page?....Pleaseeeeeeeeee.

Sam



JERRY A. LINEBACK, Editor
6361 Shore Dr.
Douglasville, GA 30135

June, 1989

Welcome to Scoreboard. Please share your DX progress with your fellow DXers through Scoreboard. The Spotlight this month is on Europe. C/H=countries heard and C/V=countries verified. Country counts are to be guided by the NASWA Radio Countries List available from Headquarters. You must update at least once a year to remain on the Scoreboard. We thank all who have participated this month. Next deadline will be August 15 for the September FRENDEX and the Spotlight then will be on North America.

Name, State	Total		Europe		Best European QSL
	C/H	C/V	C/H	C/V	
James Young, CA	238	224	41	38	R. Dublin
John Tuchscherer, WI	235		41		Renascenca
Gordon Darling, PNG	232	225	44	44	V of the Leek
Edward Kusalik, Alb.	228	225	39	39	EMR 6235
William Flynn, CA	224	207	39	38	Dublin Int.
Marlin Field, MI	223	222	39	39	EMR
Jerry Berg, MA	223	221	40	39	Tromso, Nor.
Gerry Bishop, FL	223	209	39	38	R Dublin
Roland Schulze, FRG	220	204	39	39	R. Andorra 6230
Nobuaki Takahashi, Japan	220	187			
Tom Gavaras, MN	219	216	40	39	Petrozavodsk
Harold Cones, VA	217	203	37	37	R. Renasiencia
Mitch Sams, KS	217	163			
Bill Harms, FRG	215	151	38	35	R. Dublin
Al Miller, OH	214	207	38	38	R Andorra
Terry Palmersheim, MN	214	195	39	33	S Dublin R
John Sgrulletta, NY	212	212	38	38	R Dublin Int.
C. Vernon Hyson, NC	209	196	38	37	R. Andorra
Paul Buer, FL	208	197	40	38	R Dublin
Richard Davis, NM	208	197	36	35	RIAS Berlin
Steven Lare, MI	208	167	39	37	WMR
Ron Howard, CA	207	189	34	34	RIAS Berlin
Larry Abraham, MI	206	193	37	36	Andorra
Rick Krzemien, CA	204	182	36	35	R Dublin
Kevin Atkins, AL	204	173	37	37	WMR
Kirk Allen, OK	203	183	35	33	R Dublin 800W
Jerry Lineback, GA	203	106	37	28	Andorra
Jim Uerlings, OR	203	065	35	26	Greece
Del Pyle, FL	202	187	40	38	Petrozavodsk
David Swaringen, NC	202	182	36	36	RTV Ljubljana
Sheryl Paszkiewicz, WI	201	181	38	38	WMR Scotland
Charlie Hoffman, PA	201	150	39	36	R. Andorra 6215
Christos Rigas, IL	200	178	39	39	Petrozavodsk

Name, State	Total		Europe		Best European QSL
	C/H	C/V	C/H	C/V	
John Bryant, OK	199	176			R Dublin
Kevin Atkins, AL	199	161			
Rowland Archer, NC	198	181	39	38	Andorra
Nelson George, NC	191	168	38	36	
Stephen Leite, MA	191	163	37	36	Minsk
Gayle Van Horn, LA	190	166	35	34	R Dublin
John Huniwell, NJ	189	181	37	37	R. Dublin
John R. Tow, AL	188	163	36	35	R Dublin Int.
John Meyer, WI	186	152	38	36	R Andorra
Tom Daly, NY	186	035	36	15	WMR
Andy Leskowitz, MA	185	106	35	31	Dublin 400W
Kent Willis, KY	183	136			
Hadley Cress, VA	181	8			
Tom Laskowski, IN	174	135	34	30	R Dublin 800W
Bryan Price, KY	173	098			
Morley Kirkland, Ont.	172	158			
Norman Bobb, MN	172		31		
Ichiro Maruo, Japan	166	097	32	28	ICR
Kevin Klein, WI	164	071			
Andy Rugg, Que.	161	140	37	37	Estonia 5925
Rev. John Eckert, PA	161	135	35	33	Riga
Jim Renfrew, NY	151	111	34	31	ERT Thessalonik
Greg Hart, FL	147	077	33	30	Yugoslavia
Carl Mann, NE	145	124	33	33	R Dublin
Peter Dillon, Greece	145	091	33	29	R Rodina
Carl Radtke, CA	143	143	30	30	Finland
Thomas Ross, IL	143	121	32	31	Iceland
Keiichi Kondo, Japan	143	100			
Dustin Brann, MO	143	073	26	18	R Kiev
Donna Robinson, IL	141	104			
Jim Streitmatter, IN	132		31		Yugoslavia
Jackie Cole, CO	130	093	32	32	Denmark
David Morby, NY	129	031	33	13	R. Luxembourg
Dale Park, HI	127	037	26	12	Sweden 21610
Joe Zobro, MI	097	077	30	29	DW-Malta
Ronald Purdue, MN	082	043			
Robert Carlsen, OH	081	072			
Dennis Kelly, MI	073	060	25	25	Luxembourg
William Blight, MD	070	051	27	23	Albania & Icel.

Thanks to all who have shared their totals with us this month. We encourage all NASWA members to share their totals with us through Scoreboard. Remember the next deadline is 15 August and the Spotlight will be on North America. Gud DX and 73s.

FOR SALE: WRTH '87,'88, \$8.50 each. FRENEX '87 complete, \$7.00. Passport to World Radio '88, \$9.00. Gilfer Confidential Frequency List and Guide to RTTY Frequencies #6, \$5.00. Customized Beam Headings (from/to) and distances (MI/KM) to over 435 WRTH-89 transmitter sites. Useful in selecting alternate transmissions and choosing listening times based on distances. ITU Country Codes included. Send your location/coordinates, \$6.00. All items include shipping. Cashiers check or money order, please. Al Drehmann, Route 2, Box 3-B, Tryon, NC 28782. Phone (704) 894-3398.

FOR SALE: Technics stereo receiver amplifier in excellent condition with manual and external graphic equalizer (AM/FM). Model SA-500, price \$200.00. Commodore 1525 printer in excellent condition Standard port. Requires "handshake" circuit. Comes with cover. Price \$150.00 or will trade for good quality Hallicrafters or Hammarlund SWL receivers or other vintage SW rigs. Terry Kelly, P.O. Box 1161, Bodega Bay, CA 94923. Phone (707) 875-2251 between 3 and 7 am PST Tues.-Fri. and all day Sat., Sun., and Mon.



FRENEX LOG REPORTERS

Distributing Editor: Kris W. Field, 431 Babylon Road,
Ambler, PA 19002-2302

FRENEX CONTRIBUTORS LIST — JUNE 1989 ISSUE — DEADLINE 12th of MONTH

The following members submitted loggings this month:

- | | |
|---------------------------------------|----------------------------------|
| Brian ALEXANDER, Mechanicsburg, PA | R70, R390-A |
| Kevin ATKINS, Pinson, AL | |
| Guy ATKINS, Issaquah, WA | R71-A |
| Paul BROUILLETTE, Hoffman Estates, IL | NRD 525 |
| Bob BROWN, Lansdale, PA | XCR 30, Satellit 400 |
| Norman BOBB, Minneapolis, MN | Drake SPR-4, National NC 183D |
| John S. CARSON, Jr. Norman, OK | |
| Richard D'ANGELO, Wyomissing, PA | DX 400 |
| Peter DILLON, Greece | NRD 525, Sony 2010 |
| Kris FIELD, Ambler, PA | Drake SPR-4 |
| Marlin A. FIELD, Hillsdale, MI | R71-A & Trap Dipole |
| Harold FRODGE, 1. Midland, MI | R71-A & 500 ft random wire |
| Harold FRODGE, 2. Island Lake, MI | NRD 525, FRG-7 |
| Charlie HOFFMAN, Lancaster, PA | |
| Joe HOWELL, Escondido, CA | R71-A |
| Tom JOHNSON, Plano, TX | DX 302, Zenith Transoceanic |
| Rufus JORDAN, Pittsburgh, PA | DX 160 |
| Dennis KELLY, Mt. Clemens, MI | R-5000, 75 ft Longwire, MFJ 959B |
| Jerry KLINCK, West Seneca, NY | R70 |
| Harold LEVINSON, Philadelphia, PA | R-5000 |
| Dale PARK, Honolulu, HI | NRD 515 |
| Sheryl PASZKIEWICZ, Manitowoc, WI | NRD 525 |
| Bob RYDZEWSKI, Santa Cruz, CA | FRG-7700, R-1000 |
| Daniel SAMPSON, Independence, WI | |
| Dan SHEEDY, Encinito, CA | R-5000, Drake R-7&R-4C, Icom R70 |
| Roland SCHULZE, West Germany | |
| Dan SHEEDY, Encinitas, CA | |
| Nick TORRANCE, Huntington, NY | |
| John TUCHSHERER, Neenan, WI | R70, FRG 7700 |

Wow !! This is my first full month as Distributing Editor. I don't know what the normal volume of loggings should be but I'm impressed ! It seems like I mailed out pounds of logs to the Log Report Editors.

I know we have 26 contributors this month (H. Frodge has even reported from two different listening posts). Keep up the good work and thanks to everyone for taking the time to share their loggings. One or two of you submitted loggings that arrived on the 13th and I had already mailed the packages to the editors. Sorry about that but those logs will have to wait until next month.

Well, that's about it for this month. I don't have a lot to say, I'll let the loggings speak for themselves. The summer static is coming upon us but there's still a lot of good listening to do ! Keep those radios tuned and ready but watch out for thunderstorms !

Don't forget the ANARC Net on Sunday mornings.

Until next month,

Kris



LOG REPORT

section A

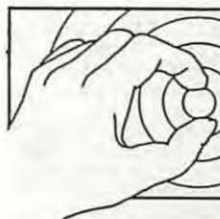
2000 to 4899 kHz

Editor: Bob Brown, P.O. Box 591, Colmar, PA 18915

- 1620 **USA (PIRATE)** WJDI *0320-0336 Ads, ID, rock mx, listener requests PO BOX 142 Cottekill NY 12419. SIO555 (D'Angelo-PA 4/10)
- 1620.2 **UNID (PIRATE)** 0510-0535* Continuous pop mx. Abruptly off @ 0535. Weak. (Alexander-PA 4/9)
- 2310 **AUSTRALIA** VL8A 0927-0935 EG, Pres. ABC pgm of pop mx. Interview @ 0930. Faint sig but improving slightly towards 1000. //2325, 2485(better). 2310 inaudible by 1015. (Atkins-WA 5/6)
- 2580h **MEXICO** XENX Mazatlan, Sin. 0845 (2 x 1290 khz) SP, ad string and promo for "la poderosa NX...".gee, annudda XE harmonic to mix w/the XE fishing boats on 2 Mhz. Good. (Sheedy-CA 4/29)
- 3205 **BRAZIL** R. Ribeirao Preto 0025-0122 PT, pop mx, Morning Zoo type pgm w/laughter & zaniness, phone calls, ID, FC @ 0117. Fair-Good (Brown-PA 5/9)
- 3220 **ECUADOR** HCJB 0854-0900 Quechua non-stop mx to 0859. M/W w/ID and tlk. Fair. (Bobb-MN 04/15)
- 3230.3 **PERU** R. El Sol de Los Andes 0029-0050 SP, OM tlk mention Peru, pres ID, mention Lima. Fast ID @ 0030 by OM. (Schulze-W. Germany 4/19)
- 3240 **SWAZILAND** TWR 0340-0344* Vern, rel pgm, ID, IS, s/off. (Schulze-W. Germany 4/8)
- 3255 **LIBERIA** ELBC Monrovia 2310-0001* EE. ID, nx, African folk mx, pol. reports, s/off. (Schulze-W. Germany 4/15)
- 3260 **PAPUA NEW GUINEA** R. Madang 1212-1222 Pidgin, OM w/pres. pgm for youth (ments of "high school"). ID @ 1212 by diff. OM. Into rollar rink mx. Good. (Atkins-WA 5/6)
- 3265 **SULAWESI** RRI Gorontalo 1135-1205 Drama, Stairway to Heaven, Song of Coco. Is., ID by YL, nx. Fair (Rydzewski-CA 4/23) 3264.7 1210 (Sheedy-CA 4/23)
- 3275 **PAPUA NEW GUINEA** R. Southern Highlands 1223-1227 Pidgin. OM w/apparent pgm of lcl mx; ments of various PNG QTHs. IDs by OM @ 1226 & 1227. Into C&W mx. Good (Atkins-WA 5/6)
- 3275 **VENEZUELA** R. Mara 0830-0900 SP, non-stop LAm mx, no tlk except for TCs, ID @ 0900. (Howell-CA 4/18) 3274.6 0550 (Hoffman 4/12)
- 3280 **ECUADOR** LV del Napo 1028-1045 Quechua M/W tlk and slow vcl mx, some chant-like. Poor-Fair w/fading. (Bobb-MN 4/22)
- 3290 **CHINA** CPBS Beijing 2104-2117 CH, ID, nx, slow orch mx. (Schulze-W. Germany 4/3)
- 3300 **BURUNDI** RDTV Nationale du Burundi 1810-1830 Vern, ID, Afro folk mx, classical mx. (Schulze-W. Germany 4/8)
- 3315 **PAPUA NEW GUINEA** R. Manus 1150-1205 Pidgin. OM w/end of "Program Rock 'N Roll", TC for 5 till 9 o'clock lcl time, quick ID & QTH given @ 1200. Into nx followed by pop mx @ 1205. Fair-Good (Atkins-WA 5/6)
- 3325 **GUATEMALA** R. Maya de Barillas 1035-1055 Indian, rel bcst, ID as "R. Maya" @ 1041. (Field-MI 4/21)
- 3330.2 **RWANDA** RDTV de la Republique Rwandaise 1753-1805 FR, ID, pop mx, nx. (Schulze-W. Germany 4/8)
- 3330.4 **PERU** Ondas del Huallaga 0447-0452* SP, ID, instr hymns. (Schulze-W. Germany 4/8)
- 3345 **INDONESIA** RRI Ternate 1253-1315 IN, Lagu pops @ t/in. YL w/"Inilah RRI Ternate" ID just b4 SCI @ 1258. RRI Jakarta nx relay to 1310 NA and lcl ID agn. (Atkins-WA 5/3)
- 3356 **BOTSWANA** R. Botswana 0410-0425 EG, breakfast show w/ID, nx, mx. //4820, 7255 Good. (Brown-PA 4/14) 1811-1818 (Schulze-W. Germany 4/1)
- 3360 **GUATEMALA** LV de Mahuala 0250 SP, mx w/frequent use of xylophones, OM anncr. Fair. (Johnson-TX 4/5)
- 3365i **PAPUA NEW GUINEA** R. Milne Bay 0908-0915 Unid lang. Island mx, OM ancr in lang thl sounded like Pidgin but not positive. Poor. (Atkins-WA 5/6)
- 3370 **GUATEMALA** R. Tezulutan 0240-0300* SP, ID, marimba mx, rel talks w. organ mx in backgrnd. Clsing ancmnts. //4835. SINPO 55544 (Schulze-W. Germany 4/21)
- 3385 **PAPUA NEW GUINEA** R. East New Britain 1225-1235 Pidgin, primitive vcls, YL w/ID TC @ 1235. Into C&W mx by prob. PNG group. Nice sig lvl. (Atkins-WA 5/5)
- 3390.1 **ZAIRE** R. Candip 1935-1946* Vern, ID, mntn of diff. Afr. countries (short nx?) w/mx bridges in between. NA w/choir. (Schulze-W. Germany 4/4)

- 3600h CUBA R. Rebelde 0950 Bouncy Cuban mx, //5025, 600khz x 6. (Howell-CA 4/23)
 3774.7 INDONESIA RPDT2 Sumbawa 1048-1109 Fading in w/soft lagu pops & pres. ads; OM ID 1058 & more soft pops to fade. Fair @ 1056 peak; mod xint. (Atkins-AL 4/22)
- 3930 SOUTH KOREA KBS Suw'on 2100-2117 Korean, ID, nx by OM/YL. Korean mx w/ OM singer. (Schulze-W. Germany 4/16)
- 3985.8t INDONESIA RRI Manokwari 1255-1315 YL ancw w/muffled freq info & poss. ID to 1258 SCI and into Jakarta relay. NA @ 1308; lcl ID likely agn @ 1309. Poor-Fair. (Atkins-WA 5/5)
- 4518.5 BOLIVIA R. Horizonte 0123-0131+ SP, weak but ok w/ TC & "en R. Horizonte.." tag & into nondescript LAm mx. 49m Bolivians quite loud same time. Poor. (Sheedy-CA 4/26)
- 4681.5 BOLIVIA R. Paititi 1017 OC, *1022 orch NA, OM s/on anmnts, pop mx. ID @ 1026 w/TC then Andean vcels to 1034 fade. Vy undermod. (Atkins-AL 4/21)
- 4753.5 INDONESIA RRI Ujung Pandang 2025-2100 Time ancmnts, ID, Quran px, pop mx. (Schulze-W. Germany 4/8)
- 4770 NIGERIA FRCN Kaduna 2015-2025 EG, ID, nx, reports. (Schulze-W. Germany 4/8)
- 4780 DIJBOUTI RDTV Djibouti 1958-2108 Arabic, ID, Quran. @ 2018 OM tlk but not in Arabic. (?) Lcl mx, nx w/mx bridges. SINPO 43333 (Schulze-W. Germany 4/12)
- 4799.8 GUATEMALA R. Buenas Nuevas 0030-0050 SP, rel tlk & mx. "Battle Hymn of the Rep." mx. ID @ 0044. Lcl marimba mx. No Cuban harmonic for a change! (Alexander-PA 4/23)
- 4815t BURKINA FASO R. Burkina 2355-0001* FR, YL singing patriotic type song, IS, NA. Weak. (Terrence-NY 4/18)
- 4820t ECUADOR R. Paz y Bien 0946-0959 SP, M/W tlk, TC, Andean mx w/flutes. Fair till QRM. (Bobb-MN 4/17)
- 4825 BRAZIL R. Educadora 0840-0900 PT, M/W w/tlk and ethereal mx. Fair. (Bobb-MN 4/21)
- 4825 BRAZIL R. Cancao Nova 0010-0030 PT, Soft vcels, ads, ID, FC, QTH. (Paszkiwicz-WI 4/17) 2345-2400 //6105,9675 (Alexander-PA 4/21) (Bobb-MN 4/22)
- 4830 VENEZUELA R. Tachira 0955-1015 SP, NA, OM w/ID and tlk. YL w/rel tlk and responses. LA mx. Fair-Good (Bobb-MN 5/3)
- 4830.4t BOLIVIA R. Grigota Noted svrl mornings w/s-on @ 09-0945v, Tachira kills 'em arnd 0950. CP mx, mntns of CP cities. Poor. (Atkins-AL 4/20-22)
- 4835 GUATEMALA R. Tezulutlan 0246-0300* SP, Continous marimba mx to YL ID, s/off anmnts & more marimba mx. 0257 organ mx - OM w/prayer. Carrier cut @ 0300. //3370. Fair. (D'Angelo-PA 4/24) (Bobb-MN 4/17)
- 4840 VENEZUELA R. Valera 0300 Mx pgm w/ID (Field-MI 4/22) (Johnson-TX 3/29)
- 4845 COLOMBIA R. Bucaramanga 0345 SP, casual IDs, played Tracy Chapman's "Revolution" and other NAM mx. (Howell-CA 4/9)
- 4845t MAURITANIA ORTM Nouakchott 0006 AR chanting & tlk. Weak. (Terrence-NY 4/19) 0140 (Jordan-PA 4/23)
- 4860 FRANCE RFI 2003-2028 F & EG, ID, tlks, mx. Also, QRG's was given. This tx is to Africa. (Schulze-W. Germany 4/2,3)
- 4865 COLOMBIA LV del Cinaruco 0911-0920 SP, LAm mx and OM w/tlk. ID @ 0916. Fair-Good (Bobb-MN 4/20) 0722 4865.1 (Field-PA 5/6)
- 4865 MOCAMBIQUE R. Mocambique, Maputo 1809-1859 EE, ID, Commentary on Natnl Peace Front in Nambia in EE and in Mocambique lang. @ 1859 clear ID, African folk mx. (Schulze-W. Germany 4/15)
- 4870 BENIN ORTB Contonou 0505 YL tlk in FR w/hvy QRM. Poor. (Johnson-TX 3/28)
- 4875.5 BOLIVIA La Cruz del Sur 0920-0947 Indian, lcl rel mx & tlk by M/W. ID @ 0922. Some Andean flute mx but mostly tlk. Fair (Alexander-PA 4/23) 1001-1023* (Bobb-MN 4/17)
- 4879.9 SOUTH AFRICA Radio 5 0341 EG. Mr. Tambourine by Byrds, OM w/ID @ 0342, commercial for the worlds finest tobacco fields. Good (Field-PA 4/15)
- 4881.7 PERU R. Nuevo Mundo 0906-0930 SP, anmts, OA mx w/yipping vcels & trad. flutes. ID @ 0916. Weak. (Alexander-PA 4/9)
- 4890 PAPUA NEW GUINEA NBC 0850-0900 Pidgin. OM tlk, TPs, drums & conch shell @ 0900. OM w/NBC nx of region & ments of mni PNG locations. Poor-Fair (Atkins-WA 5/6)
- 4895 USSR Ashkhabad 2259-2310 EG, t/in to RM IS, ID, wrld nx @ 2300. (Alexander-PA 4/14)

Summertime static starting to creep in. Early morning DX'ing will still yield some quieter band conditions. NASWA member Tetsuya Kondo of Yokohama, Japan solved Dan Sheedy's UNID Asian on 4780 from last month. It's a new freq. for Korean language from R. Pyongyang // 6180, 7200 from 1300-1350 UTC. Thanks T.K.! I will generally not use logs over a month old unless we are hunting for logs. So therefore, those few March logs I received did not make this column. 73 - Bob KW3F Compuserve 74756,1557



LOG REPORT

section B

4900 to 6199 kHz

Editor: Sheryl Paszkiewicz, 1015 Green St., Manitowoc, WI 54220-6231

- 4902 SRI LANKA, SLBC, 4/2, 0012-0040 in Sinhalese w/ID, 4 TP, lcl mx, 0030 nx. (Schulze-FRG)
- 4904.5 GHAD, RN, 4/4, 0445 w/hilife mx in FR, ID, good. (Wood-HI)
- 4905 BRAZIL, R. Relogio Federal, 5/9, 0008 w/nx by M, time sig every minute in background. (Miller-OH)
- 4910 HONDURAS, LV de la Mosquitia, 4/14, 0140-0300 w/rel tlk, ID 0200, Miskito mx, Bible study pgm. (Jordan-PA) On 4910.4 4/22, 0253-0301* w/EG & SP rel pgms, ranchera mx (Alexander)
- 4910.2 ZAMBIA, ZBS, 4/6, 0309 in vern w/tribal mx, tlk by M. Fair sig. (Johnson-TX)
- 4915 BRAZIL, RN Macapa, 4/15, 0904-0920 w/mx, ID by M 0915. Fair sig. (Bobb-MN)
- 4920 AUSTRALIA, ABC Brisbane, 1927-2010 w/ID, C&W mx, nx, wx, market rpts. (Schulze-FRG)
- 4920 ECUADOR, R. Quito, 4/8, 0207-0225 w/lite instls, ads, ID. (Alexander-PA) 4/5, 0259-0310 w/harp IS, ID, poss. nx, trumpet fanfare, noisy. (Bobb-MN)
- 4925 COLOMBIA, Em. Meridiano 70, 4/15, 0040-0304* w/mx, ID, ment. Todelar net, NA at s/off. (Schulze-FRG) 4/22, 0250-0312* w/ads, long IDs, NA, poss. weekends only. (D'Angelo) 4/22, 0255-0311* w/ads, chimes, ment. Todelar, ID 0308, NA (Alexander-PA) 4/26, 1040 w/mx, TC 1044, fade by 1051. (Field-MI) Marlin, this prob. your unid.--sp. 4/22, 1109 w/llanera mx, dance promo, IDs. (Sheedy-CA)
- 4926.3 RIO MUNI, RN Bata, 4/2-6, 2000 in SP w/ID, afr. folk mx, on 4/6 on 5003.7 at 1945 in vern w/ID. (Schulze-FRG)
- 4927 SUMATRA, RRI Jambi, 4/11, 2200 in IN w/ID, nx. (Schulze-FRG)
- 4934t KENYA, Vo Kenya, 4/14, 0305 in EG/lang w/nx, tribal mx, unreadable ID 0330, pop mx feat. Dolly Parton. (Johnson-TX)
- 4935 BRAZIL, Rdf. Jatai, 4/22, 0030 w/speech or sermon, some mx ID 0033 ment. MW & SW freq. Bad sig by 0130. (Field-MI)
- 4935 PERU, R. Tropical, 4/22, 1047-1100 w/boisterous Andean mx, tlk, fair & fading. (Bobb-MN)
- 4940t COTE D'IVOIRE, RTV Ivoirienne, 4/14, 0217 in FR w/tlks, flute mx, tlks, Afr. mx, ID & FC 0245. (Jordan-PA)
- 4940 VENEZUELA, R. Continental, 4/1, 0925 w/vcls, ID, TCs, many ment. "Euenos Dias Venezuela!" (Alexander-PA) 4/1, 1015 w/tropical mx & ads. (Frodge-MI)
- 4953.4 ANGOLA, RN, 4/14, 2240-2400 w/hilife, pop mx, Euro pops, clx, tlk, ID. After 2300 hrd weak //s 7245, 9535, 3375.8. (Alexander-PA)
- 4955 BRAZIL, R. Marajoara, 4/23, 0904-0914 w/tlk, slow mx, ment. Para. Poor-fair w/CW QRM. (Bobb-MN)
- 4965 SOUTH AFRICA, R. RSA, 4/23, 0356* w/IS, ID, AK pgm. (Alexander-PA) 4/16, 0400 in AK w/tlk, mx, ID & FC, orch mx. (Jordan-PA) 0424 w/svc to Namibia, mellow pops, ID & nx 0430. (Sheedy-CA) 4/16, *0500 w/IS, ID, lite mx. (Howell-CA) 4/2-3, 1725-1900 w/rel, folk mx, tlk abt SWAPO. (Schulze-FRG)
- 4975.8 BRAZIL, R. Timbira, 4/9, 0830-0900 w/Bras. pops, Miami Sound Machine, ID 0858, ads, jingles. (Alexander-PA)
- 5004.7 BOLIVIA, R. Cristal, 4/18, 0959-1042 w/Andean vcls, ballads, F-G depending on co-ch. ute. (Atkins-AL) 4/19, 2310 w/fast tlk, strong CW splatter. (Schulze-FRG)
- *5004.8 MOZAMBIQUE, RN Pemba, 4/21, 2210-2304 w/clear IDs, tlk, mx bridges. New time & freq. (Schulze-FRG)
- 5010 MADAGASCAR, R. Madagasikara, 4/15, 0205 in vern w/lcl Afr. mx, tlk, //weak 3287.6. (Alexander-PA)
- 5019v VENEZUELA, RN Caracas, 4/16, 0145-0300 w/commercials, mx, sev. ads, jingles, FC & TC. (Jordan-PA)

- 5020 COLOMBIA, Ecos del Atrato, 4/9, 0327-0401* w/lively vcls, ment. Caracol, TCs, s/off annmt, ID by W, orch. NA. SIO=3+53. (D'Angelo-PA) 4/15-16, 0340-0400* w/ID, "Caracol informativa," mx, NA. (Schulze-FRG) 4/22, 0345-0356* w/mx, ads, ID 0354. (Alexander-PA) 4/11, 1000 w/mx, nx, ID. (Field-MI)
- 5020 NIGER, ORTN, 4/15, 2235-2301* in FR w/hilife mx, ID, s/off annmts, choral NA. Carrier to 2303. SIO=353. (D'Angelo-PA)
- 5020 SOLOMON ISLANDS, SIBC, 5/6, 0730-0750 in EG w/ship arrivals, Honiara wx, ads, tidal rpt, sports rpt, IDs. (Atkins-WA)
- 5030 COSTA RICA, R. Impacto w/jammer (prob Nicaraguan), 4/4, 0500 w/ID, political nx, elec. motor-type jammer, same noted on //6150 & MW 980. (Wood-HI)
- 5030.7 PERU, R. Los Andes, 4/9, 0850-0905 w/annmts, ID, ment. Huamachuco. OA mx, down to 5030.5 at 0958. (Alexander-PA) 4/27, *0900 w/s/on, "CAZ2A, onda corta en Huamachuco," ad string. (Howell-CA) 4/23, 0925 w/IDs, Andean mx, tlk, poor-fair. (Bobb-MN)
- 5040 VENEZUELA, R. Maturin, 4/16, 0300-0400* w/lively pops, annmts echo effects, 3 chimes btwn segs, nx. (Jordan-PA) 4/24, 0300-0317 w/vcls, 2 IDs 0303, ballads, Bee Gees. (D'Angelo) 4/24, 0941 w/tlk & mx, ID 0944, fading. (Bobb-MN) 4/1, 0945-0957 w/vcls, annmts, IDs btwn songs. (Alexander-PA)
- 5044.1 COSTA RICA, R. Impacto, 5/8, 0950 w/nx, cmtry, ID. Don't know whether permanent freq. change. (Miller-OH) Maybe to escape jammer on 5030 per Wood's log?--sp.
- 5045 BRAZIL, R. Cult. do Para, 4/1, 0250-0410 w/pops, IDs in 10-18 min. intervals, ID, FC, "yip yip" mx, ballads. (Jordan-PA) 4/21, 0748-0808 w/tlk, mx, ID, good. (Bobb-MN)
- 5047t TOGO, RTV Togolaise, 5/4, 2320 w/James Taylor "Fire & Rain," good. (Field-PA)
- 5049 VENEZUELA, R. Maturin, 4/6, 0350 w/ID, Rumbos chimes, NA to 0400* (Howell-CA) Was this supposed to be 5040? Maybe I read freq. wrong--sp.
- 5055 FRENCH GUIANA, RFO Cayenne, 4/27, 0920 in FR w/tlk, elec. Theme mx, pops. (Howell-CA) tent. on 4/4, 0940 w/tlk by M&W, rooster crows. Hvy QRM. (Bobb-MN)
- 5057t ALBANIA, Gjirokaster, 4/18, 0320 w/Mediterranean mx, AR-like chanting, fair. SIO=322. (Frodge-MI)
- 5058.8 ECUADOR, R. Progreso, 4/17-21, 1129 w/PSAs, bank ads, TCs, "en Progreso Nacional. sistema Radio Progreso, la radio sin fronteras." (Sheedy-CA)
- 5063.3 ECUADOR, R. Progreso, 4/9, 0045-0103 w/vcls, HC mx, tlk, annmts, ads, IDs 0056, 0102. Weak. (Alexander-PA) 4/9, 0319-0325* w/vocal mx, ID, s/off w/annmt, orch NA which was cut early. (D'Angelo-PA)
- 5067.9 UNID, poss. Venezuela, LA Voz de la Fe, Maracaibo? 0000-0100* w/mx, s/off w/no NA. This listed sometime ago on 4930. Also 4/18 from 2240-2300* "una fue de la casa in frecuencia 5060 kHz, SAS Curacao y sistema." Also 4/22, 0006-0100* w/same mx pgm & annmts. This is my unid rpted to FT and is listed in WRTH on 580 kHz. (Schulze-FRG) Hrd LV de la FE ID.
- 5095 COLOMBIA, Caracol, 5/3, 0907-0932 w/tlk, TCs, IDs. (Bobb-MN)
- 5256.4 SUMATRA, RRI Sibolga, 4/8, 2101-2130 w/ID, political tlk, Qu'ran, SINPO 35333. (Schulze-FRG)
- 5900 ISRAEL, Home Svc. Prog. D, 4/22, 1740 in AR w/ID, mx ute QRM, fair. (Dillon-GREECE)
- 5940 USSR, poss. Magadan, 4/21, 0830 in RS w/tlk & vcls w/balalaikas, poor. (Bobb-MN)
- 5955 COLOMBIA, LV de los Centauros, 4/15, 0935-0950 w/tlk, TCs, ads, ment. Caracol & Colombia. Fair. (Bobb-MN)
- 5965 MALAYSIA, RTM, 4/8, 1210 in Bahasa Malaysian w/SE Asian mx flutes, vocals, tlk by M. Fair. (Johnson-TX)
- 5973.8 SUMATRA, RRI Pekanbaru, 4/12, 1410-1458* in IN w/tlk, piano bridge, TC, RRI ID 1430, ME vcls, lcl ID 1457 which wasn't clear altho Tyson in FT rpts this as Pekanbaru. (Sheedy-CA)
- 5982 GUATEMALA, Union Radio, 4/1, 0105 w/inspirational mx in SP & EG w/OM anncr, good w/some VOFc splatter from 5985. (Johnson-TX)
- 5992t COLOMBIA, LV del Ariari, 0735 w/nx, full ID before 0800 but hrd only part of it clearly. QRM. (Howell-CA)

- 6000 BRAZIL, R. Guaiba, 4/23, 0214 w/bossanova mx, IDs over mx (Howell-CA)
- 6005 ASCENSION, BBC relay, 4/30, 0528 in EG w/nx headlines, promo abt Thatcher program, SIO=222. (Carson-OK)
- 6006 COSTA RICA, R. Reloj, 4/23, 0918-0925 w/ID & peppy mx, fair w/QRM by carrier. (Bobb-MN)
- 6015 CANADA, R. Austria via RCI, 4/2, *0500-0545 in EG w/"Daily Rpt from Austria," interview, good sig. (Jordan-PA) 4/30, 0533 in EG w/nx abt environmental problems, SIO=454. (Carson-OK)
- 6020 AUSTRALIA, RA via Brandon, 4/2, 0800 w/ID, nxbrief, "Intl Rpt," hvy lcl QRM (Park-HI) 4/24, 0828-0856 w/Propagation Rpt, ID, "Sports Beat," "Pacific Wrap," interview on Micronesia, anncd Brandon test. RN QRM here 0855. (D'Angelo-PA) 4/29, 0835 w/live sports, at 1400 w/nx, IDs, actually on 6019.8. (Sheedy-CA) 4/21, 1145-1200 w/tlk & pop tunes, ID, poor-fair. (Bobb-MN) 4/26, 1259 w/mx, Intl Rpt, football, ment. this a test from Brandon. SIO=222. (Carson-OK)
- 6020 BRAZIL, R. Gaucha, 4/19, 0822 w/clear ID by M. (Field-MI) 4/18, 0823-0835 w/tlk, sev. ment. of Porto Alegre. Poor-fair. (Bobb-MN)
- 6025 DOMINICAN REPUBLIC, R. Amanacer, 4/23, 0220 w/rel pgm, organ mx, ID 0230, awful QRM. (Howell-CA)
- 6025 PARAGUAY, RN, 4/8, 0810-0840 w/LA mx, ID, echo anmts, DJ chatter, fair. //a much stronger 9735. (Alexander-PA) 4/9, 0825-0843 w/lively vocals, possibly request pgm as names were given plus locations, frequent IDs //very good 9735. SIO=2+42 w/dee fades. (D'Angelo-PA)
- 6030 BRAZIL, R. Globo, 4/9, 0854-0906 w/2 OM tlk, series of commercials, 0900 "R. Globo Noticias," nx & ads. SIO=353. (D'Angelo-PA)
- 6030 CANADA, CFVP, 4/21, 0811-0824 w/ID for AM 106, pop tunes. (Bobb-MN)
- 6030 OMAN, BBC relay, 4/22, 1645-1700 in AR w/tlk abt Mohammed, song by Fayrouz, dedications, "Huna Lundun" ID (Dillon-GREECE)
- 6040 EAST GERMANY, RBI, 4/4, *0445 w/SP ID, listed freq but only 9730 noted in //. Anncd 9645 but this was in GM, good. (Wood-HI)
- 6055 KUWAIT, R. Kuwait, 4/22, 1715-1730 in AR w/world nx, temp. in world capitals, ID, AR mx. (Dillon-GREECE)
- 6075 BRAZIL, Deutsche Welle via Brasilia, 4/10, *0100-0200 in GM w/ID, nx, tlk abt Gorbachev & Soviet nationalism problems Tijuana Brass mx, interview. (Jordan-PA)
- 6085 WEST GERMANY, Bayerischer Rundfunk, 4/10, 0152-0200 w/pops, MOR, "Hier ist Bayerischer Rundfunk," 0200 nx, decent after DW leaves at 0150. (Sheedy-CA)
- 6090 BRAZIL, R. Bandeirantes, 4/30, 0246-0302 w/mellow mx, many ads, ID, poor. (Rydzewski-CA) 4/12, 2335 w/commercials, call-in show, fair w/QRM from Luxembourg. (Johnson-TX)
- 6098.6 NICARAGUA, La Voz de Nicaragua, 4/12, 1058 in SP w/ment of "La Revolucion," mx, ID 1103, tlk by group w/dog barking, political tlk to 1110 tune out. (Terrence-NY)
- 6100 MALAYSIA, RTM ES, 4/15, 1256 in Thai w/IS, anthem, very undermod. Good sig. (Sheedy-CA)
- 6104.6 MEXICO, Su Pantera, 4/13, 15, 0340 w/PSAs, ID, undermod, QRM Panamericana. Also at 1149-1202. (Sheedy-CA) 4/21, 0433-0500 w/pop EG songs, ID, choral NA. (Howard-CA) This correctly ID'd now, not Brazil as rpt'd last month.
- 6106 BOLIVIA, R. Panamericana, 4/28, 0313 w/nx, mx, ad, SP version of "Sounds of Silence," "Greensleeves." (D'Angelo-PA) Also 4/16 0530 (Howell-CA) 4/27, 0815 (Eckert-PA) 4/20, 1012 (Atkins-AL)
- 6115 PERU, R. Union, 4/16, 0348 w/mx, commls, ID (Rydzewski-CA)
- 6116 COLOMBIA, La Voz del Llano, 4/29, 0326 w/IDs, FC, ment. Super net, national mx. SIO=343. (D'Angelo-PA)
- 6160 CANADA, CKZU, 0635-0800 (Alexander, Hoffman, Atkins-AL)
- 6185 USA, WRNO, 4/28, 0307 w/"World of Radio." (Kelly)



LOG REPORT

section C

6200 to 11699 kHz

Editor: Jerry Ervine, Box 5204, Hidalgo, TX 78557

- 8215 PIRATE INT'L WATERS R. Caroline 0403-0506 EG ID's, rock mx, ads for Canadian lottery. Address. 333. (D'Angelo-PA 3/12)
- 8215 CLAND R. Liberacion #1100-1200 SP Anti-government stn. believed to have El Salvador QTH. Chimes, s/on, anthem, tlk, mx, // 5929 5809 not heard. f-p. (Jordan-PA 3/4)
- 8240 USA, PIRATE V of Tomorrow 0143-0158* EG tlk, request for donations, and recordings of speeches, address in OR. (3/27) / 0047-0130* ID "Bringing truth to N.A., this is the Voice of Tomorrow", aimed toward the 'White'. 353. (D'Angelo-PA 4/2)
- 8240 USA, PIRATE WKND 0427-0450 EG rock mx ID. 242. (D'Angelo-PA 3/18 0405-0415 Becoming a regular here, vy strong. (Alexander-PA 3/25) 0438 DJed by the R. Animal. good variety. (Cushing 3/25)
- 6280.3 LEBANON King of Hope 2040-2048 EG ID, relig px. 55433 (Schulze)
- 6550 LEBANON Vol. 1745-1820 AR Western folk songs sung in AR. AR mx, yl ancr, nx, ads, EG @1815. f. (Dillon-GR 3/3)
- 6668.9 CLAND LV de Alpha 68 0208-0240 SP tlk by om/yl, mx breaks, ID, martial mx. strong sig. (Alexander-PA 3/25)
- 8724.3 PERU R. Satellite 0130-0202 SP noted down a little from 8728. SP ballads, campo mx, annts, ID. (Alexander-PA 3-28)
- 8755.8 CLAND R. Farabundo Marti 2355-2359* SP instru mx, tlk by om/yl, IDs. (Alexander-PA 3/24)
- 6945 GERMANY, FR re: Frogge's UNID 'R.VOLNA in this LR 3/89 is the Polish svc of R.Free Europe, whose ID is 'Radio Wolna Europa'. Notin RS. This out of band freq. must be a feeder to the trxm in Portugal or Spain. (TNX to Richard Wood-HI)
- 7115 USSR R. Moscow 0220 EG nx, ID, wx- unusually warm, film project (Berhent-OH 3/2)
- 7280 VANUATU Vila 0700 Bislama(PD) nx // 3945. both g. (Wood-HI)
- 7282 MONGOLIA RUB 1535 MG political tlk; g. (Wood-HI 3/21)
- 7270 POLAND R. Polonia 2341 EG om/yl tlk abt summer camp, mx, quest. re: Army svc. 433 (Cichorek-NJ 3/10)
- 7280 CHINA Unknown station, perhaps new regional w/external svc. 1525 EG commercial, People's Republic address for engineering prod 'Remember that phone #', 1530 into CH. did not seem // R.Beijing in EG; g. (Wood-HI 4/7)
- 7315 USA WSHB (test) 0121 EG E-Z listening mx, ID, QTH by yl, tone 322. (Cichorek-NJ 3/17) / 0358-0430 tone, ID, '...Cyprus Creek, So. Carolina, then OC remained. strong sig. (Jordan-PA 3/17)
- 7390 USSR RM 0039 RS ID/SP by om, mx bridge, yl into SP (Cichorek-NJ)
- 7409.9 PIRATE V of Tomorrow 2253-2259* EG supremacy tlk, req. donations to OR address. s/off w/drums, wolf cry. last hrd on 6240. Now on 7 MHz. strong sig. (Alexander-PA 3/19)
- 7413.9 PIRATE RSDI 0121-0124* EG lsb mx, rel messages @s/off. Pres. this is R. Star Dust Int'l, hrd on 7 MHz in usb. (Alexander-PA)
- 7415 USA, PIRATE WKND 0508-0533* EGrock mx, ID's, drinking & driving promo. 252. (D'Angelo-PA 3/11)
- 7415 USA, PIRATE United World Radio 2207-2212* EG om giving Stony Brook, N.Y. address, mx, ID. ancr, Mike Davis 252. (D'Angelo-PA 3/26,4/1)

- 7415.6 PIRATE WENJ 2100-2111# EG 'J Rock USA' oldies rock/pop mx, phone #201-525-7960, Jack Bean host. (Alexander-PA 3/26)
- 9435 SUDAN R. National Unity is a program of R. Omduman, not a clandestine. This is also a Fields or Frogge Unid in LR-c 3/89. Tnx Richard Wood-HI
- 9445 TURKEY VOT 0400 EG nx, rev. of Turkish press, mx, DX corner. (Kelly-MI 3/19)
- 9455 USA WSHB 0245-0400# EG om ancr, mx, ID, TC, px. (Jordan-PA 3/28)
- 9485 MONACO TWR *0620 IS, 0625 EG ID as 9.5 MHz; Wednesday morning into British religious show 'Arje'; g. (WOOD-HI 4/5)
- 9495 USA WSHB 1245-1330 EG trice-weekly DX feature 'Conversations'. mx, nx; (Jordan-PA 3/28)
- 9505 NETH. ANT. RNW 1051 EG 'Media Network' visiting the Bonaire rel. stn onits 20th anniv. (o/u co-channel rlg in CH. (Park-HI 3/23)
- 9510 ALGERIA RTA 0800 FR ID, nx, good accent, work projects (Wood-HI)
- 9515 UK LONDON BBC 1705 EG tkl, ID, jazz mx, tkl on Darwin (Berhent)
- 9515 LESOTHO BBC 1232 EG tkl on col. for cabinet makers. (Cichorek)
- 9535 ANGOLA (t) R. Nacional 2139 FR drum rythems, om/yl, tps, ID by yl, nx w/ments of Arafat, Gorbachev, 333. (Cichorek, NJ 3/15)
- 9555 MEXICO La Hora Exacta 1224 SP signal, tkl by om, mx (Cichorek-NJ)
- 9555 USA WYFR 0855 SP/EG slow speed Bible reading lesson of ACTS XIII, om w/ID & address. [het de USSR 9545] (Park-HI 3/23)
- 9555 UK RCI Daventry 1630 RS multilingual IDs by yl, preview, nx by yl. QRM 9580, QRN, fluttery QSB (Park-HI 3/23)
- 9590 NETHERLANDS RN 0230 EG variety, interviews, etc. (Kelly-MI 3/5)
- 9595 UAE Abu Dhabi 2250-2300 EG ID px 'Arab cities ,today Marakesh' request for reception reports. //6170, 11965. Schulze-FRG 2/6)
- 9600 NO. KOREA R. Pyongyang 1222 EG cmtry on US/Korean military maneuvers. 222 (Cichorek-NJ 3/14)
- 9620 YUGOSLAVIA R. Pristina + R. Novi Sad RY relays *1959-2029# Albanian/Hungarian Homesvc relays now an hour earlier. nx, mx bridge, s/off, IS; (D'Angelo-PA 3/30)
- 9630 SPAIN REE 0038 EG tour of Seville, Holy Week activities, mx, ID freq ancmts, TPs; 444. (Cichorek-NJ 3/27)
- 9640 USSR R. Afghanistan, relay via USSR 1905-1907 not listed in WRTH EG nx, ID. QRM R. Abu Dhabi in AR. (Schulze-FRG 3/18)
- 9650 VATICAN CITY VR 0200 EG tkl by Pope. (Kelly-MI 3/18)
- 9660 VENEZUELA R. Rumbos 0516-0545 SP lcl pop vocals, mx, spot IDs mx, ID, fgy, ancmts by om. (Jordan-PA 3/9)
- 9665 SO. AFRICA R. Sud-Afrika 0600 AK ID, nx; f. QRM VDPUK (N. Korea) (Wood-HI 3/28)
- 9670 SWAZILAND TWR, Manzili 0355-0427 Vernaculars IS, ID by yl, time ancmts, Af. folk mx. @0424 s/on VOA in Slovenian. Next day freq. covered by BBC, Moscow and unids. TWR week. 55444. (Schulze-FRG)
- 9675 BRASIL R. Cancao Nova 2350-0040 PT Canned ID, jingles & PY mx, tnx Dave Valko's tip in FT510. //4825. Beware of Moscow PT svc here also same time; p. (Sheedy-CA 3/26-27)
- 9680 INDONESIA RRI 1459 IN IS, ID, nx// 11865. both g. (Wood-HI 3/23)
- 9690 CHINA PR RB 0308 EG nx, cmtry on econ., etc; 444 (Levison-PA)
- 9700 ANTIGUA DW 0300 EG nx (Kelly-MI 3/19)
- 9725 SWITZERLAND RSI 0420 EG/GM 'Shortwave Merry-Go-Round. (Kelly-MI)
- 9740 SINGAPORE BBCWS 1840 EG 'Multitrak III'. interview, mx. (Park)
- 9750nf USSR RM 0750-0800 RS ID only in usb, AM mode 1h 1sb is nothing to listen, this is new; (Schulze-FRG 3/5)
- 9765nf LITHUANIA SSR R. Vilnius 2313 EG tkl @women's rights, child care mother's movement for military svc closer to home. Miss Lithuania beauty contest. ID, freq ancmts; 433. (Cichorek-NJ 3/10)
- 9768.8 MALI R. Beijing 0030 EG tkl, ID by yl, QRM de VOA; 333. (Cichorek)
- 9770 NETH ANT RNW 0828 EG Jon Marks w/ID over IS, preview, Jerry Cowan w/nx, no// 21485. QRM R AU 9760; (Park-HI 3/23)

- 9835 HUNGARY RB 0220 EG cmts on Hapsburg, DX and Amateur nx, Summer sked. 444 (Levison-PA 3/11)
- 9850 USA WCSN, Boston (Christian Science) 0012 EG tik, mx, ID, tik on spiritual healing; (Berhent-OH 3/18)
- 9900 EGYPT R. Cairo 2127 EG yl encl w/ments on tourism, IS, TPs. bdsaudio, QRM RNI 9895; 422. (Cichorek-NJ 3/22)
- 9915 ENGLAND BBC 0330 EG top pop from 5yrs ago. Newsdesk; (Kelly-MI)
- 9915 UKOGRANI BBCWS 2200-2300* EG 'News Hour' px; (Jordan-PA 3/25)
- 9925 BELGIUM BRT 0035 EG tik, mx, ID, tik; (Berhent-OH 3/18)
- 11445t CHINA Kunming 1801-1818 Lang. yl w/mx, tik by om. (Tuchacherer-WI)
- 11510 BANGLADESH RB 1914 Bengali/EG mx, ID, nx. (2/11) / 1820 EG ID, nx by om, poor audio, 222 (Cichorek-NJ 2/12) /1800-1900 EG tik, wld nx; g. (Wallace-MA 2/19)
- 11550 BANGLADESH RB 1840-1900 EG ID //7520 lcl mx. (Schulze-FRG 3/21)
- 11580 TAIWAN WYFR via VOFC 1505 EG Bible quiz; g. (Wood-HI 3/23)
- 11820 INDIA AIR 1324 Sinhala om tik, mx pres. ID. 222. (Cichorek-NJ) / also hrd @1005-Vern, 2045-EG, 2140-EG, 2159-EG on diff. dates. /2223-2230* EG om/nx, sports, economic survey. (Birkhuenser-CT) /2210 EG "The week in Parliament"; 343. (Frodge-MI 2/26)
- 11850 GUAM KTWR 2125 Suatow (pres). sure of IS; (Blight-MD 1/3)
- 11854 ISRAEL KY Reshet D'Aleph (aka HS "A") 1805 EG om w/nx, sports, wx, into FR. QRM. f. (Park-HI 3/18)
- 11865 KUWAIT RK 1830 EG 'Nx Bulletin', 12-hr wx forecast, R & R mx 45444 / 2000 zizd 'Strictly Romantic' 55444. (Bauernhuber-NY) / 1943 rel px, ID, yl tik; 444. (Cichorek-NJ 2/11) 1937 tik, mx, ID, "no song requests over the phone" American Rock mx; (Berhent-OH)
- 11880 USA WCSN 2102-2140 EG nx, mx w/Bill Dowling; (Tuchacherer-WI)
- 11895 USA KUSW 0500* EG ancmt, retune to 8175; g. (Wood-HI 3/29)
- 11895 FR. GUIANA R. Beijing relay 0435 EG nx, mx. (Kelly-MI 3/25)
11899. DOMINICAN REP. R. Clerin 2320-2400 SP tik, ID's, LA pops, ID R. ml, s/off appears around 0005-0040. (Alexander-PA 3/3)
- 11735 KOREA, DPR RP 1100 EG nx, IS, mx, nx, om w/re. px. // 11735, 9977; 555. (Blight-MD 3/20)
- 11825 ALBANIA RT 0335 EG nx, 422. (Blight-MD 3/10) / 0345-0359* om/yl ancrs. (Jordan-PA 2/15)
- 11950 CUBA R. Havana 2029 EG nx; (Blight-MD 3/7)

FOR SALE: Yaesu-Musen FRG-8800 in mint condition. Used for only a few months. Like new in original cartons. Yours for only \$465.00. Save \$200.00! Price includes UPS blue shipping. Chris Lobdell, P.O. Box 146, Stoneham, MA 02180. Phone (617) 438-3022 days; (508) 658-3306 after 2300 UTC.

FOR SALE: World Radio TV Handbooks, '84, '85, '87, '88, \$8.00 each plus shipping. I can also provide 10:1 matching transformers as described in Fine Tuning Proceedings 1988. Perfect for matching Beverage antennas. Binding post inputs and SO-239 output, \$16.00 each postpaid. Steven R. Lare, 824 West 25th Street, Holland, MI 49423.

FOR SALE: Seventy-four issues of Popular Communications, Jan. '83 thru April '89 (minus Aug. '83 and Feb. '86) for \$50.00 via UPS. Upon this sale I will donate the \$50.00 to NASWA funds. Support your club and buy these magazines now! Donald R. Berhent, 807 Glenhurst Road, Willowick, OH 44094. Phone (216) 944-4360 after 4:00 pm EDT.

FOR SALE: Ameco TPA in original box with RCA phono cables, \$55.00. Money order or certified check, please. Ed Cichorek, 82 Rodney Avenue, Somerset, NJ 08873. Phone (201) 545-2999.

NOTICE: I am looking for a Hammarlund HQ-170 or HQ-175. If you have one of these for sale, please write to C. Brian Hamilton, 3 Farmsworth Drive, Palm Coast, FL 32037.



LOG REPORT

section D

11700 and above

Editor: Wallace C. Treibel, 357 N.E. 149 St., Seattle, WA 98115

- 11725 SO. KOREA VOK in PT 0956, mx, ID, cmntry, f-p (Klinck 4/23)
- 11740 NO. KOREA R. Pyongyang in EG 1732, ID, chorus singing, f (Park HI 4/28)
- 11745 BRAZIL R. Bras in EG 0200, BR mx, nx, pop songs, ID, travel pgm, sked, econ tlk (Kelly 4/6, Carson OK 4/7, Frodge MI 3/29, Rydzewski CA 4/27)
- 11755 FINLAND RF in EG 0237, "Northern Report", s/off 0255 (Kelly 4/7)
- 11760 COOK IS. RCI in Maori? 0730, tlk, local island mx, p (Alexander PA 4/8) also in Maori 0920 w/mentions of various So. Pacific islands (Atkins WA 5/6)
- 11770nf AUSTRALIA RA in FR 0730, bcst test to the Pacific, exc (Calligan CA 5/4)
- 11788 INDONESIA VOI Jakarta in Thai/EG/JP 1120, pop mx, ID, f (Johnson TX 4/16)
- 11795nf MALTA LW in EG 0540, NA at s/off and site ID, exc (Carson OK 5/2)
- 11805 GUAM TWR in EG 0828, tlk on subject of integrity (Field MI 4/24)
- 11805nf SO. AFRICA RSA in lang? 1553-1600*, anncts, mx, IS, f (Park HI 5/1)
- 11810 LIBERIA ELWA Monrovia in AR 1550, chants, AR mx, nx, f (Johnson TX 3/25)
- 11810 EAST GERMANY RBI in EG 0300, pgm on solar activity and DX'ing (Kelly 4/11)
- 11810nf ANTIGUA Deut. Welle relay in GM 0753, "rat pack" feature, ex 11785 (Park HI 5/5)
- 11810 SEYCHELLES FEBA in EG *1730, IS, YL w/ID's, f (D'Angelo PA 4/16)
- 11835 SRI LANKA SLBC in EG 1055, mx, ID, f-p (Klinck 4/14, Atkins AL 4/20)
- 118652 INDONESIA RRI Jakarta in EG 1059, IS, "Song of Coconut Islands" on the hr, tlks, U.S. pop mx, poetic scenario, ID 1058, pips (Field PA 4/22, Terrence 4/24)
- 11880 CANADA RCI in EG 2130, African service, nx, features (Kelly 4/6)
- 11880 JAPAN RJ in FR 1901, freqs, ID "Ici Radio Japon", nx, p (Park HI 4/21)
- 11920 PHILIPPINE IS. VOA relay in EG 1740, shuttle launch coverage, f (Park HI 5/4)
- 11935 NETHERLANDS RNW in DT 0704, world nx, ID's, f (Park HI 4/9)
- 119377 CAMBODIA (t) Phnom Penh in EG 1155, 6 pips, mx, unreadable ID (Johnson TX 4/16)
- 11940 SINGAPORE SBC Radio 1 in EG 1105, world nx, freqs, sked, ID, TC, financial nx, U.S. pop mx (Johnson TX 4/13, Atkins AL 4/20)
- 11955 ANGOLA RNA in PT, live soccer, drum/vibraphone IS, ID, f (Sheedy CA 4/29)
- 11965 RWANDA D. Welle relay in EG 1544, into SH 1550, tlk, f (Park HI 5/1)
- 12015 MONGOLIA R. Ulan Bator in EG *0910, chimes IS, ID, nx, lcl mx (Alexander PA 4/9)
- 12035 SWITZERLAND RSI in EG 0227, "Dateline", annct several alt freqs (Kelly 4/7)
- 13605nf UNITED ARAB EMIRATES Abu Dhabi in EG 2225-2400*, polit tlks, features, ID, lcl mx, nx, press review (Jordan PA, Alexander PA, Frodge MI, Levinson PA)
- 13685nf CHINA R. Beijing in SP 0209, nx, ID's, mx (Tuchscherer WI 4/27)
- 13790 MONTERRAT D. Welle relay in PT/SP 2225, tlks, gong 2230, pops, ID (Jordan PA)
- 15010 VIETNAM VOV in EG 1615, world nx, feature, in RS? 1630 (Frodge MI, Johnson TX)
- 15055 TAIWAN WYFR Family R. relay in CH 2159, IS, hymns, tlks (Tuchscherer WI 4/23) in CH/EG 2255, inspirational mx, ID 2300, f (Johnson TX 4/12)
- 15070 UNITED KINGDOM BBC London in EG 1700, world nx, "Book Choice" (Dillon GREECE)
- 15110 IRAQ Rk. Baghdad in AR 1826, tlks, very little mx (Tuchscherer WI 4/27)
- 15115 PORTUGAL R. Liberty in CZ 0130, Asian chants, cmntry, ID's, g (Howell CA 4/12)
- 15120 VATICAN STATE RV in Latin/EG 0530, multi-lang ID's, Latin Mass (Carson OK 4/6)
- 15140 CHILE RN de Chile in SP 2015-0219+, ID 2315, pop mx, phone-in, sports, loud crowd noises (Johnson TX 4/12, Frodge MI 4/24, Jordan PA 4/12)
- 15155 ECUADOR HCJB Quito in EG 0130, "Saludos Amigos" w/Ken MacHarg (Frodge MI 4/24)
- 15160 AUSTRALIA RA in EG 0533, "Window on Australia", sail race in Tasmania, exc (Carson OK 4/6) in EG 0750, feature on death of P. Damien Ieper preach (Park HI)
- 15250 ROMANIA R. Bucharest in EG 1500, "Weekend Magazine", folk mx, f (Carson OK 4/8)
- 15325 SEYCHELLES FEBA in EG 1550, "Back to the Bible", world nx, //11760 (Park HI)
- 15345 NETHERLAND ANTILLES TWR in EG 1130, "Caribbean Connection" and "Bonaire Wave Length", f (Calligan CA 5/4) feature w/Sam Barto 1143, ID (Frodge MI 4/1)
- 15345 SWEDEN RS in FR 1525, interview, ID, IS, s/off 1530, g (Johnson TX)
- 15350 LUXEMBOURG RTL in FR 0143, pop mx & DJ, exc (Brouillette IL 4/12) in FR 2250 U.S. rock mx, ID "ici Luxembourg", f (Terrence 4/23)
- 15365 SOUTH AFRICA RSA in SH 1456, nx, cmntry, much African mx, f (Carson OK)
- 15375 SPAIN Span. Nat. R. in EG 1934, DX and tourist pgms, g (Carson OK 4/23)
- 15380 ROMANIA R. Bucharest in EG 0540, lcl mx, polit tlk, feature (Carson 4/6)
- 15400 ASCENSION IS. BBC relay in EG 1530, narration of horse race, vg (Johnson TX)
- 15425 SRI LANKA SLBC in EG 0203, nx, ID 0204, TC, requests, f (D'Angelo PA 4/17)
- 15430 SWITZERLAND SRI in EG/Espanto 1515, pgm notes, f-g (Frodge MI 4/1)
- 15430 IRAQ R. Baghdad in AR 2120, mid-East mx, pips 2159, exc (Tuchscherer WI 4/27)

15435nf CHINA R. Canada relay via Beijing in EG 1259, IS, pgm review, nx (Park HI 5/3)
15445 LIBERIA VOA relay Monrovia in EG 1648, feature on Lucille Ball, f (Park HI 4/27)
15445 WEST GERMANY R. Liberty in RS 0104, nx, ID in mid-nx (Brouillette IL 4/12)
15456 LIBYA VO Arab Homeland in AR 0052, narrative w/electronic filler mx, "2001 Space
Odyssey" theme 0100, ID "Sawt al-Watan al-Arabiya", //15438 (Brouillette 4/12)
15495 KUWAIT R. Kuwait in AR 0246, Qur'an pgm, tlks, prayer chants (Jordan PA 4/22)
15570 MADAGASCAR R. Nederlands relay in EG 1652, "Airtone Africa", f (Park HI 4/28)
15600 LIBERIA VOA relay in EG 2130, "World Report", nx, ID, f-g (Hoffman PA 4/25)
17555nf USA WSHB Cypress Creek, S.C. in EG/SP *2000, "Herald of Christian Science" pgm,
w/Letterbox feature, SP version of HOCs, s/off 2054 (Frodge MI 4/1)
17590 ISRAEL Kol Israel in EG 1916, "Night in the Dark", g (Carson OK 5/1) in HB 1526,
interview, pop mx, ads & slogan, //17545, f (Park HI 4/9)
17630 GABON Africa No. 1 in FR 1538, soccer game w/excited anncer, f (Park HI 4/9)
17660 PAKISTAN RP in EG *0230-0245*, slo-speed & normal nx in EG, p (Jordan PA 4/22)
17705 NEW ZEALAND RNZ in EG 0540, Pac area nx, exc, //15150 (Johnson TX 3/31)
17710 BANGLADESH RB in EG *1230, IS 1228, ID's, Asian nx, pgm preview (Atkins WA 5/6)
17710nf SYRIA R. Damascus in EG 2050-2103*, lcl mx, ID, nx, NA, //15095, s/on again at
2105 after 2 min break (Alexander PA 4/16, Klinck 4/15) in FR/EG 1945-2030, FR,
Euro, & ME nx bloc, ID, freq, billboard at 2003, tlk (Jordan PA 4/17)
17715 UNITED KINGDOM BBC London in AR 1455, tlks, Big Ben, ID, nx, AR mx (Jordan 4/30)
17720 FRENCH GUIANA RFI relay in FR 1620, ID's, mx, chatter, exc (Klinck 4/28)
17740 INDIA AIR in EG 1005, Asian & world nx, ID's, //15155, f (Park HI 4/17)
17755 SOUTH AFRICA RSA in PT 1957, ID in EG, nx in PT, lcl mx, f (Carson OK 4/4)
17780 VATICAN STATE VR in EG 0050, cmtry on capital punishment in S. Afr (Johnson TX)
17790 AUSTRALIA RA in EG 0547, request show, nx 0600, exc (Carson OK)
17810 SRI LANKA D. Welle relay in EG 1926, "Newsline Cologne", press review (Park 4/27)
17820 CANADA RCI in EG 2135, nx, wx, sports, SW Listeners Digest, g (Carson OK 4/29)
17825nf QATAR QBS in AR 1613, mx bits, tlks, mid-East mx from 1616, vg (Tuchscherer WI)
17840 NORWAY RNI in NO 1453, IS, ID in EG/NO, tlks, nx, vg (Jordan PA 4/11)
17880 SWEDEN RS in FR 1519, tlk re nuclear reactor, into EG 1530 (Tuchscherer 4/26)
17895 PAKISTAN RP in Bengali 0102, Qur'an, tlks, nx?, chants, ID, f (Jordan PA 4/22)
21470nf ECUADOR HCJB Quito in GM/EG 1830-1930, religious pgms, f (Jordan PA 4/9)
21490 AUSTRIA RAI in GM 1502, nx, cmnts on Soviet elections, exc (Carson OK 3/29)
21490nf PAKISTAN RP in EG 0245*, nx in slow-EG, ID, //17660 (Alexander PA 4/23) in Urdu
0041, chant vocals, prayers, ID, chorus, p (Jordan PA 4/22)
21515nf VATICAN STATE(t) VR? in EG 0635, speech by Pope John Paul II, p (Park HI 5/4)
21515nf UNITED ARAB EMIRATES R. Dubai in AR 1205, recitations, vocals, f (Jordan 4/20)
21535 SOUTH AFRICA RSA in EG 1836, World War II air crew reunion, exc (Carson OK 5/1)
21535nf PHILIPPINE IS.(p) VOA relay in EG 2210, remake of Eurythmics tune, rpt on all-
terrain bikes, anncmt as test xmsn from VOA, off at 2214, f (Park HI 5/4)
21565nf COSTA RICA RFPi in EG 0225, "New Dimensions Radio", ID, requests for donations
of \$25 to stay on air, "Meaning of the Holocaust", exc (Brouillette IL 5/4)
21575nf PAKISTAN RP in EG 1109, nx in slow-speed EG, ID (Schulze W. GERMANY 4/2)
21590 SOUTH AFRICA RSA in EG 1309, nx, "Artist of the Week", g (Carson OK 4/7)
21610 SWEDEN RSI in EG 1535, nx, "Nordic Newsweek" (Leivson PA 4/1, Carson OK 4/8)
21640nf SWEDEN RSI in EG 1540, wx, sports, ID, interview, f (Sheedy CA 4/21) Note: Could
this be a move from 21610 rptd earlier in month as noted above?
21650 WEST GERMANY DW in IN 1410, nx, cmtry, freqs, skeds, f (Carson OK 4/7)
21705 NORWAY RNI in EG 1600, cmtry on NATO membership, nx, interview w/scientist re
"heavy water" production, exc (Terrence 4/9)
21740nf PAKISTAN RP in EG 1613, mid-East events in slo-speed EG, ID (Terrence 4/9)
21740nf AUSTRALIA RA in EG 0230, "Communicator" abt Matilda, exc (Brouillette IL 4/30)
In EG 2159 w/"International Report" (Frodge MI 4/29) in EG 0240 "Anything Goes"
featuring mx of the 30's and 40's, f (Park HI 4/12)
25465nf FRANCE RFI in FR 1203*, ID, Afro drums IS, nx, interview, mx, g (Jordan 4/12)
25645nf BELGIUM BRT in FR 1506-1545, FR pops, closing ID, IS, freqs, g (Sheedy CA 4/14)
25730 NORWAY RNI in NO 1445*, tlks, childrens' choir, ID's in EG (Jordan PA 4/11)
In NO 1422, song in EG, vocals - sounded religious, f-g (Leivson PA 4/22)
25740nf WEST GERMANY DW in GkM 1340, tlks, ID, ID, off 1350, f (Jordan PA 4/9)
25946nf COSTA RICA RFPi in EG 2339, pgm re AIDS, f (Brouillette IL 4/27) in EG 2141
w/Hauser's "World of Radio" (Frodge MI) in EG 1812, T-shirt offer (Sampson WI)

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Fax: 609-859-3226	Pinelands RBBS: 609-859-1910

Congratulations to Marianne and Jonathan Marks on the birth of their son Christopher David (announced in Media Network May 18).

Notes in no particular order: VOA will be running a special test transmission on June 15 and 16 from 14 to 17 UT each day on 26040 kHz, directed to Europe and carrying VOA Europe programming. Radio Australia has expanded its propagation report to 7 days per week, 4 times a day. The 2027 report has been dropped. The times are 0425, 0827, 1227 and 1627 UT. AWR, Ivory Coast, at 12 on 17890 in Eng on Sunday can be heard quite well for a couple of minutes until HCJB dumps its transmitter on the air. A couple of typos wound up in the files but are herein corrected (c.f. Israel, Japan). Thanks to Kris Field for schedules from V of UAE, KTWR, ELWA, R Havana and RBI. Thanks also to John Carson for a host of schedules, including those from Kiev and Ankara. Kiev's printed vs announced schedule differ. John, I will take your request for a introductory computer article under advisement, but I would refer you to your local library and computer club for guidance. I think I am correct in saying there is more radio-related software available for the PC group than the Macintosh. I use IBM PC/XT/AT/PS2 compatible computers, whereas Bob Brown and Jim Frimmel (SW Navigator) use the Apple Macintosh family. Gayle Van Horn, editor of the Monitoring Times Broadcast Loggings and QSL Report column, also passes schedules along. Thanks, Gayle! Kol Israel may have retimed "DX Corner" from 25 to 10 minutes into their 30-minute transmissions (so noted on May 14), but it was back in its normal slot a week later. John Carson and Ernie Behr correct a typo in last month's comments re RA Brandon was on 6020 (not 6240) kHz. When I listen in the 09-10 area I only hear R Nederland's Bonaire relay directed to down under. Chuck Roswell, Frequency Coordinator for TWR-Bonaire, faxes corrections to frequencies and the change in time for his Wavelength show. Chuck is PJ4CR and is found in the "Divi-Divi" net Sun-Tue-Wed 1130-1200 UT on 14340. He will be at ANARCON in July. See you there, Chuck. I have everything in hand except the plane tickets, but that is just the matter of a telephone call.

Pinelands RBBS News: Al Quaglieri has uploaded a host of files from the new Radio Australia Maltida BBS; you can now see what Communicator has been talking about. Thanks, Al! Kraig Krist has posted his popular -- and complete -- program guide. Download SWL_0589.ZIP. Philip Yant has also uploaded a utility to break apart the large file into smaller segments. The board is also sporting a FidoNet number of 1:266/32 to supplement the RBBS-Net number of 8:950/2.

The SW program that produces these listings in FRENDX has been upgraded once again. For those with either the JRC NRD-525 and Kenwood R-5000 receiver, the appropriate RS-232 interface and correct serial cable wiring, the program loads the receiver memories with the selection of the "L>oad" function. Send an business-size SASE for information.

Changes entered between 04/28/89 and 05/25/89.

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

Start Time (UTC)	End Time (UTC)	Country	Station	Freq #1	Freq #2	Freq #3	Freq #4	Freq #5	Freq #6	Freq #7	Freq #8	Target Area	Notes	Record Last Updated
0000	0100	China	R Beijing	17855	17715	15130						ENA	#2&3 v Mali	04/29/89
0000	0115	India	AIR	17725	15110	11745	11715	9910	9535			GOS/As		05/24/89
0000	0300	USSR	R Moscow	15440	15290	11930	11850	11730	11710	9765		ENA	and other freqs	05/20/89
0000	0045	Yugoslavia	R Yugoslavia	15105	11735	7215						W Eu/NA		05/21/89
0030	0430	Costa Rica	R for Peace Int'l	21565	13660								Tu-Sa	05/13/89
0100	0200	Japan	R Japan	17845	17835	17825	17810	5960				GOS/Asia/NA	17835 -0130:49a Can	04/29/89
0130	0330	Iraq	R Baghdad	11945	11810							NA/SA/Ind/Pakis		05/16/89
0145	0230	German Dem Rep	R Berlin Int'l	15125	11890	11785	6080					ENA/WNA		05/14/89
0200	0400	Cuba	R Havana	11820	9710							Americas		05/20/89
0200	0256	South Africa	Radio RSA	9615	9585	6010						NA		04/30/89
0200	0300	Taiwan	V of Free China	15345	11860	11740	9765	9680	7445	5985		NA/Jap/As/CA/AusNZ	- #3,5,7 v WYFR	05/20/89
0200	0230	USSR	R Kiev	15455	15180	13645	12000	11790	11675			NA		05/20/89
0230	0315	German Dem Rep	R Berlin Int'l	15240	13610	9730						LA		05/25/89
0300	0400	Bulgaria	R Sofia	15140	11765	11735	11720					Afr/NA		05/07/89
0300	0400	China	R Beijing	17855	15130	11715	9690					WNA	#4 Spain:#2&3 Mali	04/29/89
0300	0345	German Dem Rep	R Berlin Int'l	15125	11785							WNA		05/14/89
0300	0330	Japan	R Japan	21610	17835	17825	17810	17765	15325	15195	11905	GOS/Asia/NA	#9 Gab:#6 Fr Guinea	04/30/89
0300	0430	Netherland Antilles	Trans World Radio	11930	9535							NA	Su/Mo -0530	05/10/89
0300	0400	Taiwan	V of Free China	15345	11745	9765	9680	7445	5985			NA/Jap/As/AusNZ	#4,6 v WYFR	05/20/89
0345	0430	German Dem Rep	R Berlin Int'l	15125	11785							WNA		05/14/89
0400	0500	China	R Beijing	15195	11840	11685						WNA/ENA	#2 Canada:#3 Fr Guin	04/29/89
0400	0600	Cuba	R Havana	11820	11760	9710	5965					Americas		05/21/89
0530	0600	Italy	AMR Europe	7257								Eu		04/30/89
0555	0802	Liberia	ELWA	4760									H-SaIF-0817,Sa-0832	05/14/89
0555	0825	Malaysia	V of Malaysia	15295	9750	6175						Aus/NZ/Indonesia		04/30/89
0600	0700	South Korea	R Korea	11830	9570	7275						As/GOS		05/13/89
0630	1000	Liberia	ELWA	11830								C&W Afr	Sa-Su	05/14/89
0655	0832	Liberia	ELWA	4760									Su	05/14/89

0700	0800	Japan	R Japan	21690	21500	17810	17765	15270	GOS/As/Am/Dc/Eu/ME	#1 v Gabon	04/29/89
0800	0900	Portugal	AWR Europe	9670					Eu	Sunday only	04/30/89
0805	0930	Guam	KTWR	15210					Far East		05/08/89
0810	0840	Mongolia	R Ulan Bator	12015	9615				Dc		05/16/89
0830	0930	China	R Beijing	17710	15440	11755			S Pacific		04/29/89
0900	1205	New Zealand	R New Zealand Int'l	9850	6100				Aus/Melanesia		05/07/89
0930	1030	China	R Beijing	17710	15440	11755			S Pacific		04/29/89
0930	1000	Italy	AWR Europe	7257					Eu		04/30/89
1000	1100	India	AIR	17740	17387	15335	15135	11860	GOS/NE As/AusNZ		05/24/89
1055	1257	Netherland Antilles	Trans World Radio	15345	11815				NA	Sat -1400/Sun -1332	05/10/89
1100	1200	China	R Beijing	17855					ENA		04/29/89
1100	1145	German Dem Rep	R Berlin Int'l	17775	13690	9665	6115		Eu/NE		05/25/89
1100	1130	Mongolia	R Ulan Bator	12015	9615				Far East	exc Tu&F	05/16/89
1100	1156	South Africa	Radio RSA	21590	11900				Afr/ME/UK/Ireland		04/30/89
1100	1200	Taiwan	V of Asia	9845	7445	5980			SE As		05/13/89
1130	1215	German Dem Rep	R Berlin Int'l	21540	21465	17880	15440		As		05/25/89
1130	1225	Netherlands	R Nederland	21520	21480	17575	9715	5955	Eu/NE/As	#2 v Madagascar	05/14/89
1200	1300	China	R Beijing	17855	15450	15400	11660	11600	ENA/SE As/S Pac		04/29/89
1200	1230	Yugoslavia	R Yugoslavia	25795	21555	17740			F East/Aus/NA		05/14/89
1215	1300	German Dem Rep	R Berlin Int'l	15240	11705				ME		05/25/89
1235	1243	Greece	V of Greece	17550	15630	11645			NA	Eng news	05/20/89
1240	2205	Liberia	ELWA	11830					C&W Afr	Su	05/14/89
1245	1330	German Dem Rep	R Berlin Int'l	21540	21465	17880	15440		As		05/25/89
1300	1400	China	R Beijing	15400	11855	11660	11600		SE As/WNA/S Pac		04/29/89
1300	1356	South Africa	Radio RSA	21590	17730	9585			Ind/Pak/FE/S Af		04/30/89
1330	1500	India	AIR	15335	11810	9565			GOS/SE As		05/24/89
1345	1415	Mongolia	R Ulan Bator	15505	9615				S As		05/16/89
1400	1500	China	R Beijing	15165	11855	11795			S As/WNA		04/29/89
1400	1425	France	R France Int'l	21780	17695				SE As	news/English	05/07/89
1400	1500	Japan	R Japan	11865	11815				GOS/As/Am		04/30/89
1400	1556	South Africa	Radio RSA	25790	21590	17555	17745	11925	UK/Eu/NA/Afr/ME		04/30/89
1400	1430	USSR	R Stn Peace & Progress	17645	17635	17610	15220	11890	As		05/07/89
1500	1600	China	R Beijing	15165	11855	11795			S As/WNA		04/29/89
1500	1900	Costa Rica	R for Peace Int'l	25945	7375					M-F	05/13/89
1500	1635	Guam	KTWR	11650					India	Mo -1705	05/08/89
1500	1600	Japan	R Japan	21700	11865	11815			GOS/As/Am/Eu/NE	21700 v Gabon	04/30/89
1530	1538	Greece	V of Greece	17550	15630	11645			NA	Eng news	05/21/89
1530	1600	Sweden	R Sweden	21675	21610	17880			E Afr/NA		05/16/89
1545	1630	German Dem Rep	R Berlin Int'l	17775	15340	9730	7295		Af/Eu		05/25/89

1555	2205	Liberia	ELWA	11830						C&W Afr	H-Sa	05/14/89	
1600	1700	China	R Beijing	15110	11715	9570				E&S Afr	#1&2 v Mali	04/29/89	
1600	1630	Portugal	R Portugal	15210						India/NE	H-F	05/08/89	
1630	1700	USSR	R Stn Peace & Progress	17615	17595	11775	11670	12055	11910	11695	9830	Af/As	05/07/89
1700	1800	China	R Beijing	15165	11575	9570				E&S Afr		04/29/89	
1700	1730	Japan	R Japan	11865	11815	9695	9535			GOS/As/Ae		04/30/89	
1725	2230	Liberia	ELWA	4760								05/14/89	
1730	2330	Costa Rica	R for Peace Int'l	25945	21565						Sa-Su	05/13/89	
1730	1815	German Dem Rep	R Berlin Int'l	15340	15145	13610	9665			Af		05/25/89	
1800	1827	Czechoslovakia	R Prague	11855	7345	5930				Eu		05/21/89	
1800	2000	India	AIR	15360	11935					GOS/E Afr		05/24/89	
1800	1856	South Africa	Radio RSA	21590						UK/Ireland		05/21/89	
1800	1830	USSR	R Kiev	11780	9600	9560	7330			Eu		05/20/89	
1830	1900	Yugoslavia	R Yugoslavia	11735	9660	7215				Af/Eu		05/21/89	
1840	1910	Mongolia	R Ulan Bator	12050	9985					Eu		05/16/89	
1900	2000	China	R Beijing	11515	9440					W&N Afr		04/29/89	
1900	1957	Czechoslovakia	R Prague	11855	7345	5930				Eu		05/21/89	
1900	1930	Japan	R Japan	11865	11850	11705				GOS/Am/Oc		04/30/89	
1900	1930	Portugal	R Portugal	15250	11740					Afr/Eu	H-F	05/08/89	
1900	1956	South Africa	Radio RSA	15365	11900	7270				Afr/NE		04/30/89	
1915	2000	German Dem Rep	R Berlin Int'l	15340	13610	9665				Af		05/25/89	
1945	2045	India	AIR	11860	9755					GOS/W&N Afr		05/24/89	
2000	2100	China	R Beijing	15110	11715	11500	9820	9440		W&N Afr/E&S Afr/Eu	#1&2 v Mali	04/29/89	
2000	2400	Costa Rica	R for Peace Int'l	25945	21565						H-F	05/13/89	
2000	2200	Iraq	R Baghdad	13660						Eu		05/16/89	
2045	2230	India	AIR	11715	11620	9910	9550	7412	7265	GOS/W Eu/Aus/NZ/Af		05/24/89	
2100	2200	China	R Beijing	11500	9820	3985				Eu	#3 -2130 v Switz	04/29/89	
2100	2130	Japan	R Japan	17890	17810	15270	15230	11815	11800	GOS/As/Dc/Eu	#6 v Gabon	04/29/89	
2100	2130	USSR	R Stn Peace & Progress	15240	11980	9820	9550	7420	7340	Eu		05/07/89	
2100	2200	Yugoslavia	R Yugoslavia	15105	11735	9620	7215			W Eu/NA/India/Af		05/20/89	
2130	2200	Israel	Kol Israel	17630	15755	15640	13750	11605		NA/LA/WE Eu		05/07/89	
2200	2300	Taiwan	V of Free China	17612	15370	15345	9955			Eu/Aus/NZ	#1&3 v WYFR	05/20/89	
2200	2300	USSR	R Moscow	15290	11750	11730	11710	9765		ENA	also other freq's	05/21/89	
2200	2230	USSR	R Vilnius	15455	13645	11790	7400	6100		NA/Eu		05/21/89	
2245	0000	India	AIR	15110	11745	11715	9910	9535	7215	GOS/As		05/24/89	
2300	2400	Japan	R Japan	21610	17810	17765	15195	11800		GOS/As/Eu/NE/SA	#5 v Gabon	05/07/89	
2300	0000	USSR	R Moscow	15290	11930	11730	11710	9765		ENA	also other freq's	05/20/89	
2330	0000	USSR	R Kiev	15455	15180	13645	12000	11790	7400	NA		05/21/89	

Changes entered between 04/28/89 and 05/25/89.

ENGLISH LANGUAGE DX SHOWS: By Day of Week
Compiled by Thomas R. Sundstrom, W2IX

Shortwave DX Program	Show Start Time	Xsn Start Time	Country	Station	Freq 01	Freq 02	Freq 03	Freq 04	Freq 05	Freq 06	Freq 07	Target Area	Notes re DX Show	Record Last Updated
** DAY OF THE WEEK: Sunday														
Bonaire Wavelength	0330	0300	Netherland Antilles	Trans World Radio	11930	9535						NA		05/10/89
AMR DX Program	0815	0800	Portugal	AWR Europe	9670							Eu		04/30/89
World of Radio	2030	1730	Costa Rica	R for Peace Int'l	25945	21565								05/13/89
DX Corner	2150	2130	Israel	Kol Israel	17630	17575	15640	13750	11605			NA/LA/W/E Eu		05/07/89
** DAY OF THE WEEK: Monday														
World of Radio	1530	1500	Costa Rica	R for Peace Int'l	25945	7375								05/13/89
** DAY OF THE WEEK: Tuesday														
World of Radio	2230	2000	Costa Rica	R for Peace Int'l	25945	21565								05/13/89
** DAY OF THE WEEK: Wednesday														
World of Radio	0300	0030	Costa Rica	R for Peace Int'l	21565	13660								05/13/89
** DAY OF THE WEEK: Friday														
DX Show	1615	1600	Portugal	R Portugal	15210							India/NE		05/08/89
World of Radio	2000	2000	Costa Rica	R for Peace Int'l	25945	21565								05/13/89
** DAY OF THE WEEK: Saturday														
World of Radio	0030	0030	Costa Rica	R for Peace Int'l	21565	13660								05/13/89
Bonaire Wavelength	1130	1055	Netherland Antilles	Trans World Radio	15345	11815						NA		05/10/89



Fine Tuning is pleased to announce a joint venture with the Australian DX publication "OZDX." Beginning in November, 1988, OZDX members undertook a three month effort to update and confirm the data base of Indonesian SWBC stations created by Fine Tuning and first published in North America in August, 1988. The Australian effort is complete and the data base has been updated by data base manager, FTer Jon Williams of Indianapolis, IN, USA.

Fine Tuning will complete a similar update effort in July and will publish a 1989 Indonesian Survey in August, 1989, for North American DXers. Those who purchased the 1988 Indonesian Survey from FT can receive a four page "Mid-Year Indo-Updater" containing all of the Australian changes to the 1988 Survey by sending a #10 SASE to FT Special Publications, c/o John Bryant, Rt. 5, Box 14, Stillwater, OK, USA 74074. DXers wishing to purchase the "1988 Survey of Indonesian Stations" (\$4.00 + \$1.00 S+H) or the indepth study of Indonesian SWBC called "DXer's Handbook...Indonesia" (\$6.00 = \$1.00 S+H) may still do so through John at FT Special Pubs.

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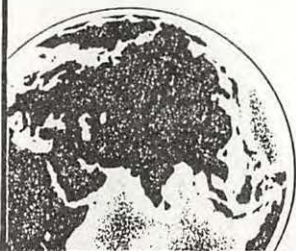


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A PUBLICATION OF THE ONTARIO DX ASSOCIATION

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P R E S S R E L E A S E

In 1986 during the Swedish DX-Federation's annual Parliament it was decided that SDXF shall award any Radiostation as the QSL-station of the year as an appreciation for having done the dx-ers enjoyed by answering them or encourage them for their reports and information about the reception in their area. The Swedish DX Federation asked their members in the Swedish DX-magazine Eter Aktuell which radio station they wanted to award as the QSL-station 1988. Radio Impacto in Costa Rica got most votes.

Radio Impacto, Costa Rica has been awarded the title QSL-station 1988 by dx-ers as an appreciation for their generosity shown in answering reception reports during a very long time.

The award enclosed with a typical Swedish souvenir from Sweden will be sent to the station. However we hope that the Swedish Embassy in Managua, Nicaragua will help us to handle the award over to the verisigner at Radio Impacto Mr. Hector Requena C.

This award "QSL-station of the year" has been distributed to radiostations without directed transmissions to other countries for the third time. Radiostation which have received the award before are:

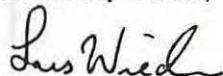
1986 Radio Botswana, Botswana

1987 Sani Radio, Honduras

We hope that this award will be known by radiostations and dx-ers around the world to encourage smaller radiostations to answer correspondance from dx-ers.

We should be glad if you will announce this pressrelease in your dx-magazine or dx-program.

Sincerely Yours,



Lars Wieden
SVERIGES DX-FÖRBUND

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