

AUGUST - 1977

# frenDX



NORTH AMERICAN SHORT WAVE ASSOCIATION    POST OFFICE BOX 13    LIBERTY, INDIANA 47353 U.S.A.



WELCOME TO 46 NEW MEMBERS DURING JULY

- |                                      |  |
|--------------------------------------|--|
| ADKINS, Terry L., Fargo, ND          | LA ROSE, Robert, Rochester, NY           |
| BAKER, Gary A., Ft. Walton Beach, FL | LONG, David, Franklin, TN                |
| BARANY, Tim, Oak Park, IL            | McCANTS, Donald, University, AL          |
| BECK, Paul W., Danbury, CT           | McCULLOUGH, Randy L., Amsterdam, NY      |
| BEEBE, Robert E., Omaha, NE          | MAINLAND, J.C., Karori, New Zealand      |
| BLISH, Ben, Milford, PA              | MORRIS, Richard I., Jr., Boston, MA      |
| BOYD, Ken, Lethbridge, Alta          | NARY, Stephen W., Willingboro, NJ        |
| BUNCE, William, Browns Mills, NJ     | POWER, Bruce, Tallahassee, FL            |
| CHRISTIAN, Edward, Grosse Pointe, MI | PRIMM, E. Russell, Arlington Hgts., IL   |
| CONNER, Charles P., Morgantown, WV   | PRISCO, Daniel J., New Brunswick, NJ     |
| CREWS, William E., Atlanta, GA       | SBORDONE, Steven, Orlando, FL            |
| DORREL, Roger E., West Covina, CA    | SEEGER, Edward B., Jr., Houston, TX      |
| DUKE, David J., El Paso, TX          | SMITH, G. Mark, Huntsville, AL           |
| FUMELLI, Francis, Ronkonkoma, NY     | TAYLOR, Mitchell W., Summerville, SC     |
| GANGNAGEL, J.A., Boca Raton, FL      | TIERS, Mike, W. Vancouver, B.C.          |
| GOLKIN, Jonathan, Glen Head, NY      | TUKKANEN, Walt, Campbell, CA             |
| HARMAN, Smith S., Atlanta, GA        | VINCENT, Mark, Lockney, TX               |
| HILLMAN, Harold S., Barrington, RI   | WARD, Terrance, Waco, TX                 |
| JENSEN, David A., Anchorage, Alaska  | WATSON, Grayson B., Winnfield, LA        |
| JONES, Louis E., Glendale, AZ        | WEBER, Donald J., Westlake, OH           |
| KAECK, Jack A., De Kalb, IL          | WEISKIND, Samuel B., Lyndhurst, OH       |
| KING, Ernest F., Clarksville, TN     | WICKS, Douglas E., Mineral Point, PA     |
| LANGNECKERT, Frederick G., St. Louis | WILLIAMS, RM2 W.K., Guantanamo Bay, Cuba |

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**HELPING HAND:** For sale. Now have a FRG-7 and wish to sell Drake SPR-4 in top condition, only \$400.00. Also Realistic DX-150A in top condition for \$70.00. Also Ameco PLF all band peramplifier, mint condition \$30.00. All prices include shipping. Contact George W. Cady, 1355 North Dearborn, #502, Chicago, IL 60610

**HELPING HAND:** For sale. DX-160 in mint condition with speaker and manual. Only five months old. Will send in original carton for \$130.00 plus shipping, or make offer. Contact Robert Stees, RD #2, Box 61, Halifax PA 17032 or call 717/896-8070 anytime.

**HELPING HAND:** For sale. a total of twenty eight SWL books including 1966, 1969, and 1971 How to Listen to the World, ARRL Antenna Book, NRC publications, Sams books, etc. Price \$23.00 for the lot postpaid. Contact Andrew Pappas, 11421 S. Maplewood Avenue, Chicago, IL 60655

**HELPING HAND:** For sale. DX-160 receiver with ceramic filters and 100 kHz calibrator installed, speaker, antenna tuner, Autek audio filter, and an electric clock. All for \$160.00. Contact Brian Saade, 7908 Tokay Avenue, #6, Fontana, CA 92335.

# NASWA

A REPORT FROM  
HEADQUARTERS

NORTH AMERICAN SHORT WAVE ASSOCIATION POST OFFICE BOX 13 LIBERTY, INDIANA 47353 U.S.A.  
AUGUST, 1977

**SPECIAL ELECTION REQUIRED:** In the June issue of FRENEX, proposed changes to Article C and Article E of the NASWA Constitution, which was approved last October, were outlined and the membership was requested to vote on those proposed changes. The voting has been completed. Only 23 votes were received from a membership of almost 1,500 members. This is a little more than 1% of the membership taking part in what was felt to be important matters of business. The final results of the voting is as follows:

Article C	18 votes approving	5 votes not approving
Article E	20 votes approving	3 votes not approving

With the voting concluded and since Article C now calls for five members of the Executive Council, the membership is now requested to elect two additional Executive Council members. The new members are to be elected from the current FRENEX editorial staff, and they being nominees, are listed in alphabetical order as follows:

Tom Alleman	Glenn Hauser	Jerry Lineback	Dan Robinson
Sam Barto	Dan Henderson	Bill Oliver	Myron Smith
Tom Gavaras	Don Jensen	Greg Ravenhorst	David Walcutt

All NASWA members are urged to take time to vote, and to vote send either a post card or sheet of paper on which the names of TWO of the above persons are indicated as the voter's choice to become a part of NASWA's management. Send all ballots to HQ to be received not later than September 15, 1977. All ballots must be signed, and if an envelope is used, it would be appreciated if it were marked "Ballot". The results of the voting will be published in the October FRENEX.

**LOG REPORT CONTRIBUTORS NOTE:** Distributing editor Greg Ravenhorst reports he will be in Europe from September 12-27. This means that the deadline for the Log Report sections will have an earlier deadline for the October issue only. Mail all LR contributions to Greg to be received by him no later than September 5, 1977. This deadline applies to this one issue only.

**HAUSER AND HOWARD NAMED ANARC DXERS OF THE YEAR:** FRENEX Listener's Notebook editor Glenn Hauser was recently named "ANARC North American DXer of the Year" by the voting membership of the Association of North American Radio Clubs at the recent ANARC convention in Palatine, Illinois. Although HQ and Glenn have not always agreed on certain matters, we do agree that he deserves the award and hope he continues as LN editor for a long time.

Clayton Howard, on leave from Radio Station HGJB's "DX Party Line" was named "ANARC International DXer of the Year" at the convention. Clayton has been very instrumental in providing world wide publicity for NASWA over the years for which we are very grateful.

Congratulations to both!

**LOG REPORT EXPERIMENT:** Starting with this issue, the Log Report editors will be using a different set of abbreviations for the program languages. On a trial basis we are adopting the Newark News Radio Club language abbreviations in lieu of the traditional ones used by NASWA and a number of other clubs. We feel the NNRC system may be clearer and may eliminate some of the confusion inherent in the current system. For example, both Swedish and Spanish may be listed as SS but would become SW and SP; Hungarian and Hebrew become HG and HB; Polish and Portuguese become PL and PT. Tom Gavaras is scheduled to carry a list of the new abbreviations in his section for a more complete reference.

Headquarters would welcome comments on what the readers of the Log Report think of the new system before we adopt it permanently.

**DXING ACCORDING TO NASWA (3RD REVISION):** We are now taking orders for the latest revision of "DXing According to NASWA". The center section of this issue duplicates the table of contents to give an idea of the subjects being covered. An order form is also included for your convenience.

**SUPPORT DX HOTLINE:** DX Hotline is scheduled to resume with the mid August issue. All past contributors are being asked to send items now to Tom Alleman, 615 West 43rd Terrace, Kansas City, MO 64111 to assure that we can continue with DXH where it left off.

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# shortwave CENTER

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JERRY A. LINEBACK, EDITOR  
P. O. Box 325  
St. Joseph, Illinois 61873

AUGUST 1977

We hope you will enjoy this issue of FRENCH. The editors strive to present interesting and informative material, but they are largely limited by what you, the reader, send in to the various sections. We need your support. Contributions on any subject relating to shortwave broadcasting are welcome to Shortwave Center. The next deadline for SWC is 10 September for timely material. Other material welcome anytime.

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## R-388/URR

THE COLLINS R-388/URR

A review of the Collins R-388/URR military surplus communications receiver.

by James B. Wilson, Jr., Lincoln, Nebraska

I've heard enough of just how great the R-390 is. Admittedly it is a fine receiver, but for those of us who prefer a dial readout over an odometer, there is an excellent receiver available in the R-388. It too is manufactured by Collins Radio Company and quite a few are available on the surplus market. The ones that didn't go to the military were called 51J-3s and were exactly the same, you may find one of these available. A later model, the 51J-4, was manufactured with mechanical filters (3). This is an excellent receiver, but cost quite a bit more than the R-388.

The price will vary over quite a range depending on the condition of the particular unit. I've seen one sell for \$140 at a ham auction, which was in very good shape electrically. The one I have was purchased for \$395 and it is in absolutely top condition both electrically and physically. A completely overhauled unit may go for as much as \$600.

The R-388 weighs in at about 35 lbs and is 10½ inches high, 19 inches wide, and 13 inches deep. It is designed for standard rack mount and very few will be found with cabinets. The front panel is shown in the drawing. It has a top dial which displays the megahertz range, and a lower circular dial which reads out the kilohertz. The readout is accurate to 1 kHz. The dial as shown reads 2.987 MHz. The reason for the two sets of figures on the kHz dial is that two bands (1.5-2.5 MHz and 2.5-3.5 MHz) read the opposite direction to the others. These two bands are marked in red as are the corresponding figures on the kHz dial, the other bands are marked in black. The megahertz dial is actually a drum which rotates with the band change knob. There are a total of 30, 1MHz, bands from 0.5 to 30.5 MHz.

The crystal filter uses a single crystal in conjunction with a phasing control. The phasing control will vary the placement of the rejection notch to remove heterodynes. The selectivity control will vary the selectivity for about 6 kHz at 0 setting, when the filter is out of the circuit, to a few hundred hertz at position 4.

The BFO, beat frequency oscillator, allows reception of morse code, single sideband, and radio-teletype transmissions. It can also be used to zero-beat the carrier of an AM transmission, for accurate frequency readout. This helps in checking the receiver against WWV.

The meter normally monitors input signal present, similar to an S-meter, although calibrated in dB, and can be used for tuning purposes. When the momentary switch is placed in the output position, the meter displays the audio output voltage. The R-388 utilizes a series noise limiter which can be disabled from the front panel. The AVC, automatic volume control, can also be disabled, at which time the manual RF gain control can be used.

The crystal calibrator is a 100 kHz oscillator whose frequency can be adjusted from the front panel by the screwdriver adjustment labeled CAL. This allows you to zero beat the calibrator against WWV. The zero ADJ knob allows you to move the marker on the kilohertz dial to compensate for any dial inaccuracies due to age. The ANT TRIM control is adjusted for maximum signal for each different frequency.

Physically the R-388 is the usual Collins construction, very solid and extremely well built. Electrically it uses the famous Collins PTO, permeability tuned oscillator, which tunes the inductor of the oscillator instead of the capacitor. The PTO has exceptional linearity across the band and has a dial rotation of 10 complete revolutions per 1 MHz band.

The receiver set up is a standard superheterodyne principle with a few twists. On band 1 (0.5-1.5 MHz) it uses triple conversion with first IF of 11.5-10.5 MHz, second variable IF of 3.5-2.5 MHz, and last IF of 500 kHz where the main amplification and selectivity occurs. On bands 2 and 3 (2.5-1.5 MHz and 3.5-2.5 MHz) it uses single conversion down to the 500 kHz IF. This is due to the fact that these frequencies are also used as the first IF on the rest of the bands. So on bands 4-30 it is dual conversion utilizing a first IF of 2.5-1.5 MHz on even numbered bands and a first IF of 3.5 to 2.5 MHz on the odd numbered bands. This set up, although rather complicated to explain, works quite well and allows for excellent image rejection. Images are those signals that show up where they shouldn't on your receiver.

The sensitivity is at least 1  $\mu$ V at +10 dB S+N/N on all bands and sometimes better. Selectivity is quite adequate even without the filter in and when it gets crowded, the crystal filter and phasing control can be used to notch out heterodynes and interference. Stability is fabulous, thanks to the Collins PTO, and the receiver can be used to receive radio-teletype press transmissions which require a great deal of stability.

In summary the R-388 is an excellent alternative to the R-390 and even the R-390A, although it does not have mechanical filters. If you are one of those that prefer a dial readout over the odometer, as I do, this receiver is the only way to go!

#### Appendix

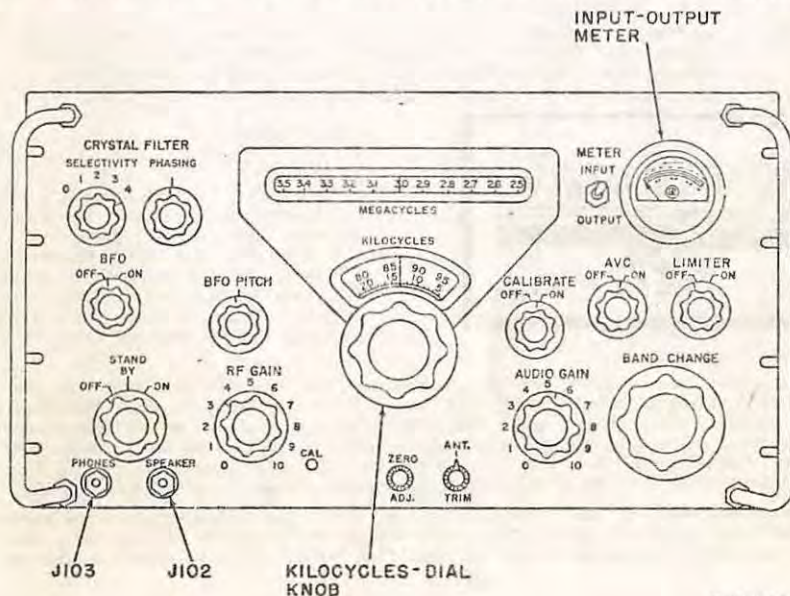
If you do happen to acquire an R-388, or already have one, the original manual is available from S. Consalvo, 7218 Roanne Dr., Washington DC 20021, for \$8.50 plus 60% for postage and handling. A postal money order will expedite shipment. He also has available manuals for the R-390 at \$10.00, and the R-390A at \$12.50.

Several modifications have been devised for the R-388 or 51J-3. These will improve performance in the areas noted.

"Further Improvements for the 51J" by Capt. Paul H. Lee. CQ Magazine, April 1968, p. 68. Improvements include installing a crystal lattice filter, new first mixer (for better sensitivity) and antenna trimmer for old models.

"More on Updated Improvements for the 51J Receivers" by W. M. Scherer. CQ Magazine, December 1968, p. 64. Adding a product detector for Single Side Band Reception.

"New Life for the Collins 51J Receiver VFO", by W. I. Orr. Ham Radio, December 1969, p. 36. Detailed account of how to adjust and restore the PTO to like new condition.



## EDUCATION

SHORTWAVE RADIO AND EDUCATION: A Perspective

by Edward J. Insigner

The well-known Educational Testing Service of Princeton, NJ, recently completed a \$175,000 survey at the request of the U. S. Office of Education. About 1,800 public school students were randomly selected from 27 states to determine their knowledge about other countries. The survey asked basic questions concerning political parties and geographic facts.

Mr. Lawrence Feinberg of the Washington Post commented on the results of this survey. He states: "Although television brings the world into their homes, students in American public schools have very serious gaps in their knowledge about other countries."

One very positive and promising approach to this problem lies within our hobby. Shortwave radio provides us with an educational tool, a far reaching and limitless resource which students can explore. More specifically, shortwave radio can help students master geography while familiarizing themselves with political parties and powers. For example, the survey revealed that 43% of the high school seniors tested could not locate Egypt on a map. 40% also thought Israel was an Arab nation. Even the casual SWL'er can master such geographic facts in a short time -- then go on and immediately identify the capitols of both countries! On the political side, 54% of the high school seniors were unaware that the United States government spends more of its money on defense than on other items. Tuning in to the VoA or BBC, which every SWL'er does to one extent or another, would surface this fact in a little listening time. It is a constant topic of discussion and commentary.

Since most high school budgets allow funding for a wide range of audiovisual equipment, it would be feasible to purchase a shortwave receiver, perhaps a modestly priced portable that could function well with general ease of operation.

Everyone is well aware of the abuse of television in our society today. One alternative is to review the values and advantages of a shortwave receiver. Support of radio through public education and use could help in reversing the dependency on the "tube" as a part of everyday life. Students are receptive to solid facts: It would not take them long to see the thrill and fun behind shortwave listening. This also points to the fact that it is an excellent tool of education. Disguised behind a set of knobs and dials is a wealth of information unlike any ordinary book, magazine, or homework assignment. Students could confront learning from a different viewpoint with a healthier attitude.

An added bonus to shortwave radio is its adaptability to a modern high school curriculum. The world of communications is a natural unit of study. This introduction could lead into a study of the use of international communications in society and to spark interest in and aid in teaching languages. It might well become a gathering place for interested students and the formation of an extra-curricular club, and, ultimately a hobby for some of the students.

The world of shortwave listening will lead students into the realm of opinions and attitudes that cross political ideologies and geographic boundaries. As an educational tool, it has the ability, now it deserves the recognition by educators and students.

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by Sam Barto

Watertown CT

The quest for this extremely rare verification took just over a year to complete. Through the efforts of a DXing friend of mine, Dario Monferini, in Milano, Italy, I was able to obtain this valuable QSL. The following story about the history of Gamma Radio Milano are excerpts from correspondence between

Dario and myself.

In early 1976, Gamma Radio Milano started transmitting on the FM band from atop the second highest building in Milano. The studio was and still is located on the 36th floor. In February of 1976, the station started transmitting on 6208.5 kHz. The station's owner, Mr. Bruno Riefeser was an old time ham operator and the first person in Italy to use RTTY back in 1948. Test transmissions were carried out on 6208.5 kHz, however, a protest from Algeria on interference with their radiotelephone service prompted a move to 6218.5 kHz.

Tests were conducted on 6218.5 kHz till June of 1976. The following month the station ceased operations. It seems that Mr. Bruno Riefeser was expecting the shipment of a new 1 kW Rodhe transmitter and wanted to have it installed immediately upon receipt. The new

transmitter did not arrive when expected and thus the station never reactivated their shortwave broadcasts.

There is also another reason why Gamma Radio Milano was never heard again on the international shortwave bands. In September of 1976 Mr. Bruno Riefeser was killed with a revolver at the Autober House in Nice, France. The facts behind this incident have never been satisfactorily explained. The station was then taken over by Mr. Monti, the Italian oil executive. Mr. Monti disliked the idea of shortwave operations and continued broadcasting on the FM band only.

My friend Dario visited Gamma Radio Milano in early April of this year and spoke to the station's secretary. The secretary pulled my report out of the files and typed the verification on the back of a station sticker. Dario says that this is the first, only, and very probably the last verification that the station will ever issue for the ill-fated transmissions on the shortwave bands. Maybe so, I don't know, however, Dario says that the secretary and the rest of the station's staff would like nothing better than to forget the entire episode surrounding Gamma Radio Milano's shortwave era.

By the way, the secretary's name is C. Riefeser.

I would like to thank Dario for all the time and effort expended in helping me to obtain this most wanted verification. As you can see there are many more ways to get that QSL than by simply using the address section of the WRTH.

VERIFICATION FROM

GAMMA RADIO MILANO

GENT.mo Sig. SAMUEL L. BARTO,  
Nel ringraziarLa per il suo rapporto  
Le conferriamo i suoi dati dell'a-  
prile 1976 sulla frequenza di 6220Kz  
P/ RADIO GAMMA ,la segretaria  
C. RIEFESER

## Travel-aid radio approved

WASHINGTON — (AP) — The Federal Communications Commission yesterday approved the creation of noncommercial radio stations to transmit information to motorists and others at key travel locations.

The "travelers information service" stations, which may go on the air starting as early as July 29, were proposed to provide warnings of road hazards, directions to parking lots at airports, availability of lodging, food and gasoline and other information.

The stations will be restricted to the immediate vicinity of air, train and bus terminals, public parks and historical sites, interstate highway interchanges, bridges and tunnels.

Local and federal government agencies operating the stations will be allowed to use the frequencies of 530 and 1610 kilohertz, which are slightly above and below the standard broadcast band which runs from 535 to 1605 kilohertz.

The F.C.C. said all station operations will be secondary to all other services operating on the frequencies. The stations must not interfere with the broadcasts of commercial stations although broadcasts from these established stations may interfere with the new stations' broadcasts because of mechanical limitations of some radio receivers.

Left: via Hugh Miller, Seattle  
Below: from Family Radio News

Construction of the new shortwave facilities in Okeechobee, Florida, is progressing. The transmission building is almost entirely completed; the first antennas are being erected; and the first transmitter is being installed. The Lord has indeed blessed in this construction program. Lord willing, we should be able to begin broadcasting from Okeechobee with the first transmitter in August or September.

During these coming months pray for our shortwave engineering staff. Until our move from Scituate is complete, we will be operating partly from Scituate and partly from Okeechobee. This puts an extra heavy load on all our staff. Pray, too, that God will keep us faithful in spending His money as wisely as possible for these facilities so that the very best shortwave facility will be constructed.

If you are traveling in Florida, we cordially invite you to visit these new facilities. You can get there by driving north about 15 miles on Highway 441 from Okeechobee to Eagle Island Road, then west on Eagle Island Road about seven miles.

We praise God for all that has been



accomplished thus far. We do believe that many have been praying that God will truly use this new facility to His honor and glory.

These pictures were taken in March. Even then the construction of the transmitter building was well under way.

## IS THIS DXING?

EXTRACT FROM DX CORNER BROADCAST OVER RADIO

RSA ON 9 July 1977, by Gerry E. Wood

Johannesburg, RSA.

A listener in the Federal Republic of Germany wrote to us recently and asked if we would be interested in a description of his method of DXing. And here we quote direct from his letter: . . . "Every night, for at least four hours, I am DXing either on the medium-wave band or the 60 metre band, while sleeping in my bed. This is achieved by an electronic switching clock attached to a tape recorder and a receiver. The receiver is pretuned to an established frequency. The recorder operates at 2.375 cm per second enabling at least four hours recording on a standard tape."

Our correspondent then continues, "You may say that if at night I record four hours then on the following day I must listen to four hours of recording. But I do not. The tape recorder's counter numbers are translated into time of recording so that I need only listen to those parts of the tape where full or half hours actual time are recorded. If there is a positive reception, then I can listen to more tape."

To end this theme our writer adds, "I use a digital frequency counter and a loop antenna. The loop antenna is preset at night on a compass bearing according to a radio station's direction from my QTH on an azimuthal map".

And so ends the contribution and to my mind a controversial one. My immediate reaction is to say, "That is not DXing". But as I've said before, I do try to keep an open mind on all matters appertaining to radio listening and in this particular case have listed points for and points against, and also asked myself a number of questions in relation to the subject matter.

Firstly, I asked myself, "is the radio signal being received at the QTH, that is the radio post, of the sleeping enthusiast?" The answer is YES, but maybe he shouldn't be called an enthusiast, him being sound asleep as it is!

This I asked, "Would the signal have been received if the man had been awake and actually listening?" And again the answer is YES.

So I then asked myself, "Can I sit down the next morning and write a reception report to a radio station stating - 'At a quarter past three in the early hours of this morning, while sitting shivering in front of my receiver, and my eyes falling out of my head, I heard your radio station'. ????? ??"

No. Of course I can't. I can write- "At a quarter past three, my tape recorder, with overheated valves, tuned to your radio station". And now who does the radio station send the QSL to? I'd say the tape recorder because it is the tape recorder that achieved the recorded reception, not the radio enthusiast. Oops there I go again calling him an enthusiast when it should maybe be Nocturnal Technocrat.

Could I, as the next meeting of local DXers report to everyone that I had QSLed the Solomon Islands when I was actually sound asleep dreaming of 7 hour recorders, and adjustable frequency recording sessions.????

Before you know it someone will have designed a teleprinter type operation which will hold a standard reporting letter and will automatically put in the frequency of reception, from the digital frequency meter of course: and a time and date of reception from the automatic clock, and record program details on a magnetic strip on the paper. There won't be any need for a radio listener at all, only a posting clerk.

Hold it Gerry, hold it. Are you not maybe going overboard about this. Tape recorders don't collect QSL cards - radio listeners do. So the chap in question had a snooze while the tape recorder did the work. The signal was received you know. It's not really the same as getting a friend who lives 12 000 kilometres away to send you a tape recording of his local reception of the local station and you then write a reception report to that station. That is cheating.

But if you actually, or at least your automatic listening post actually heard and recorded the signals, then surely that is OK? So the listener, I mean the sleeper, didn't himself actually hear the Solomon Islands on his radio, but he has a QSL to prove he did. What does it matter if he is listening to a tape recorder and not a radio receiver? There isn't all that much difference, is there?

And here we leave this subject of automatic DXing. Do you do it? If so, can you justify it? This is a subject that needs discussion and we look forward to much interesting comment. Our address: DX Corner, P. O. Box 4559, Johannesburg, Republic of South Africa.

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 HELPING HAND- Buy or trade equipment for foreign WW II military radios, etc. Reward for locating same, also older US equipment. Correspond with collectors. Hugh Miller, 11206 First N.E., Seattle, WA 98125.

# DX-160

## FREQUENCY INTERPOLATION FOR THE DX-160

by Bill Parkey, Naperville, IL

In the April issue of FRENEX, there was an article about frequency calibration of the DX-150. This became a very helpful article to me, only I have a DX-160, which really doesn't pose a problem. I have done the same thing with the DX-160 and the results are excellent. As mentioned in the previous article, all that you need is a 100 kHz crystal calibrator and a standard four function calibrator.

Here is how to do it: Using the crystal calibrator locate a marker with the main tuning dial making sure that the bandspread dial is all the way to the right. After you have found the marker, don't touch the main tuner for the rest of the procedure. Now, turn the bandspread dial until you locate the next marker. At this point, the frequency is 100 kHz below that of the main tuning setting.

In order to find what I call the Bandspread Multiplication Factor (BMF), look at the log scale on the bandspread dial (the top scale). Note the log setting where you found the marker provided by the calibrator using the method above. Subtract this number from 100, which is the log setting when the tuner (bandspread) is all the way to the right. This gives you the number of spaces\* between the main tuning setting and the 100 kHz marker. Now divide the 100 kHz by the number of spaces on the log scale that you found above. This is the BMF\* in kHz per log scale space.

To get the frequency\* of the desired station simply multiply the number of spaces by the BMF for that frequency range and subtract this product from the main tuning setting. Make sure to convert the main tuning setting from MHz to kHz by multiplying by 1000. The BMF is already in kHz.

To get the range between the main tuning setting and the maximum bandspread displacement (log scale reading of 0), do the following: Multiply the BMF by 100 log spaces. This will give you the maximum amount of bandspread frequency that may be subtracted from the main tuning frequency. This is when the bandspread dial has been turned all the way to the left. Making sure that everything is in kHz, the range is between the main tuning setting and the main tuning setting minus the maximum bandspread displacement.

REVIEW \* Number of spaces is equal to the 100 log scale setting minus the bandspread log scale setting where you hear the station.

\* BMF is equal to 100 kHz divided by the above number of spaces.

\* Frequency is equal to (main tuning setting) - (BMF x number of spaces).

Below is all the above information for the frequencies between 4500 kHz and 10000 kHz.

Main Tuning Setting in kHz	Range in kHz		BMF in kHz/space	Main Tuning Setting in kHz	Range in kHz		BMF in kHz/space
	From	To			From	To	
4500	4500	4397	1.028807	7300	7300	7020	2.801120
4600	4600	4491	1.094092	7400	7400	7112	2.681844
4700	4700	4586	1.149426	7500	7500	7205	2.949863
4800	4800	4679	1.206273	7600	7600	7297	3.050211
4900	4900	4773	1.266823	7700	7700	7390	3.096975
5000	5000	4868	1.321000	7800	7800	7488	3.125000
5100	5100	4961	1.388889	7900	7900	7579	3.210273
5200	5200	5055	1.449275	8000	8000	7674	3.257329
5300	5300	5149	1.510574	8100	8100	7767	3.333553
5400	5400	5243	1.567398	8200	8200	7865	3.367003
5500	5500	5336	1.639344	8300	8300	7956	3.448278
5700	5700	5523	1.769912	8400	8400	8049	3.508772
5800	5800	5618	1.824818	8500	8500	8143	3.571429
5900	5900	5711	1.886192	8600	8600	8238	3.623168
8000	8000	5804	1.960784	8700	8700	8331	3.690037
8100	8100	5896	2.040816	8800	8800	8427	3.731343
8200	8200	5991	2.087883	8900	8900	8520	3.802281
8300	8300	6083	2.167787	9000	9000	8615	3.846164
8400	8400	6178	2.222222	9100	9100	8712	3.876969
8500	8500	6270	2.298851	9200	9200	8802	3.976143
8600	8600	6368	2.320186	9300	9300	8900	4.000000
8700	8700	6466	2.459024	9400	9400	8993	4.065041
8800	8800	6560	2.500000	9500	9500	9087	4.132231
8900	8900	6644	2.564103	9600	9600	9183	4.168667
7000	7000	6737	2.631579	9700	9700	9281	4.192872
7100	7100	6830	2.702703	9800	9800	9374	4.255319
7200	7200	6923	2.770085	9900	9900	9466	4.347824
				10000	10000	9558	4.424779

## Who is listening?

### HOW MANY OF US ARE THERE?

The following is a transcription of an interview of Bernard Bumfus(sp?), head of external services audience research at the BBC, by Bob Zanotti on the Swiss Broadcasting Corporation on 1 June 1977. Keith Cooper was the "Dateline" announcer on this date. Transcription contributed by John Wegener, Godfrey, IL.

Cooper: Shortwave radio, because it goes everywhere (or, at least almost everywhere) has potentially the largest audience in the world. But who is that audience, and exactly how large is it? That's a problem that has faced shortwave broadcasters for years, and still does. A new attempt at a reasonable answer is now being made by a number of shortwave stations, lead by the BBC in London -- the World Service -- and also including the SEC, the European and Overseas Services of the Swiss Broadcasting Corporation, here in Berne. The man in charge is Mr. Bernard Bumfus, who is head of External Broadcasting Audience Research at the BBC, and who is in Switzerland to discuss the methods to be used in this latest survey on radio listening. Mr. Bumfus said this would be a long term project, and it would be more accurate than the unrealistic method of trying to base the number of listeners merely on the number of letters that a radio station receives. Mr. Bumfus stressed how important it is for broadcasters to know their audience.

Bumfus: First of all, it is important for broadcasters to get some kind of feedback from their audience. Now I mean by feedback, structured feedback -- that is to say, in answer to specific questions. What broadcasters want to know is what people think about specific programs, what they think about presentation. So, it's important to get some kind of structured feedback. It's also important, of course, to know how many people are listening, because if one can't say -- one has no idea what's the size of one's audience -- then I think one's lost, really. We do it at the BBC by sending out questionnaires, which are always drawn up in conjunction with the people who make the programmes, to panels of listeners. And these are not only to our English listeners, but also to listeners in a number of languages: we have about twenty panels. And we are always very careful to design our research in conjunction with programme-makers, because we think in the BBC that research for research's sake is useless. The panels will vary in size from 2500 right down to about 400. We will send these panels questionnaires and we expect to get about 60 or 70 percent response rate, if we're lucky. Now all these people were answering specific questions and these can be processed, either, for a very small panel, they can be processed by hand, or with a big panel they can be processed on a computer. So programme-makers have a very good idea of what people think. Now, you would say, perhaps, "Well, they're not representative -- they're people who have contacted the BBC." But our experiences, from other sources, is that, in fact, they are reasonably representative. Although they're not scientifically selected, they are, in fact, representative of audiences as a whole.

Zanotti: But, on the other hand, there's this question of determining the number of listeners to a radio station. Of course, this is fairly simple in a national broadcasting service -- your people are there, and they're right at the back door. But how do you go about some kind of scientific, or really intelligent, or objective evaluation of numbers where you can't even see the people you're dealing with?

Bumfus: Well, we can only do this by the means of commissioning market-research organizations to carry out sample surveys. And this we do in many countries throughout the world. We can't, of course, do this kind of survey everywhere -- I mean, there are some countries which forbid them. But there are many countries where market-research organizations operate, and can operate, freely, either with government or without. You can, by scientifically choosing your sample, in conjunction with a market-research organization -- you can, in fact, find out within the limits of this kind of research (and that's  $\pm 5\%$  usually) how many people are listening. This kind of research, of course, isn't cheap, but it is reasonably accurate.

Zanotti: Mr. Bumfus, how exactly will the Swiss Broadcasting Corporation's International and Overseas Services be taking part in this survey?

Bumfus: Well, we always ask not only about listening to the BBC, but about listening to other major international broadcasters. So, we shall be including the SEC in our list of stations we ask about. Also we shall be getting a listener level for them too, for whatever languages they broadcast. For example, if they broadcast in French, and this is to French West Africa, we will ask about French, and we'll ask about listening in English.

Zanotti: Thank you very much.

Cooper: That was Mr. Bernard Bumfus, audience researcher with the BBC, telling Bob Zanotti about a new shortwave listener survey. And we hope, of course, if one of these questionnaires happens to come your way, that you'll be able to fill in lots of details about the many happy hours you spent listening to SEC.

ELWA, P.O. Box 192, Monrovia, Liberia

Located in West Africa about 15 degrees north  
of the Equator. It is the radio voice of the  
Sudan Interior Mission. Transmitter of 10 kW  
operates on 4770 kHz, wavelength of 63 m.  
Listings in Radio and Maritime News.



RADIO STATION ELWA  
MONROVIA, LIBERIA

by Michael Bolitho  
Toronto, Ontario

(All information in this article  
came from the May, 1976, ELWA  
transmission schedule.)

Radio station ELWA, located near Monrovia, Liberia, is the radio voice of the Sudan Interior Mission. The first Christian Gospel radio station in Africa, ELWA went on the air 18 January 1954.

The station's first transmitter was a 1 kW mediumwave unit. Shortly after the MW transmitter was placed into service, a 10 kW shortwave unit was added for English and West African language broadcasts. In 1963, another 10 kW shortwave transmitter was put into operation for use in the 90 metre band. This transmitter is used for Liberian vernacular broadcasts. Two 50 kW SW transmitters were added in 1960 and 1968. In March 1973, the original 1 kW MW transmitter was replaced by a new 10 kW unit.

ELWA broadcasts 272 hours a week in approximately 35 different languages. (Some languages may have been counted twice as the schedule is not too clear.) I have heard them in English on 4770 kHz (10 kW) until station sign off at 2245 on Sundays. According to their schedule they stay on till 2300 Weekdays and Saturdays.

ELWA replies to reception reports with a very complete QSL card, but they tend to be a bit slow in replying. I have received one QSL in two months, and the other in six. When you write to them, I suggest you enclose return postage. Then sit patiently and wait for the reply!

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## WARC-79

U.S. PROPOSES EXPANSION OF SHORTWAVE  
BROADCAST SPECTRUM SPACE

by Larry Magne, Philadelphia PA

On 23 May, the FCC issued a document ("Fifth Notice of Inquiry") on WARC-79 that calls for greater spectrum space for International Broadcasting, power limitations, elimination of ham-broadcaster sharing in the 7 MHz band, and introduction of Fixed-Broadcasting sharing in the new IB (International Broadcasting) spectrum space. Although it is not the final word on the U.S. position at WARC-79, it represents a step in the right direction for both broadcasters and listeners alike.

On 2 June, the International Broadcasting Service Group met to discuss the Fifth Notice. In addition to the Chairman, Stanley Leinwoll (RFE/RL), in attendance were Lloyd Smith and Steve Selwin (FCC), Art Thompson (WYFR), Dave Sumner (ARRL), Roger Legge (consultant), L. R. Raish (FRACOR), and Larry Magne (ANARC/NASWA). The Group extended its appreciation to Messrs. Smith and Selwin for their successful efforts on behalf of International Broadcasting.

The provisions of the Notice, plus proposals suggested by Group members, are summarized below. These are my own (Magne) impressions, not official minutes (which may be obtained from the FCC). The proposals will be weighed by the Chairman and evaluated at the next meeting on July 6.

Power limitations: The Notice suggests limiting A3 (customary broadcast mode) effective radiated power (ERP) to +73 dBW. The Group tended to shy away from this approach for several reasons, including that it may encourage use of low-gain, wide-angle antennas that would diminish frequency conservation and increase interference problems. A 500 kW RF power limitation, with no antenna constraints, was proposed instead. Lower power limitations were considered impractical, as a number of countries (e.g., U.S., France, USSR) already manufacture and/or operate 500 kW transmitters.

Internal broadcasting: The notice made three proposals concerning Internal Broadcasting on SW. First, the 60 metre tropical band segment from 5005 to 5060 kHz would become a new International Broadcast band. Second, Internal Broadcasting would be limited to frequencies below 7500 kHz. Third, Internal Broadcasting would be subject to a stricter power limitation, viz. (for A3) 47 dBW ERP.

The 60 metre proposal was objected to for several reasons, including that it probably would incur resistance from Third World broadcasters. A counterproposal was made, viz.

that 5005-5060 kHz would remain as internal tropical broadcasting (shared with Fixed and Mobile), whereas the 6 MHz band lower parameter would be dropped to 5900 kHz. This also satisfied the objection that the 6 MHz band had not been expanded in the Fifth Notice, even though virtually every channel from 5900 to 5950 kHz is currently used and registered for broadcasting by the Soviet Union.

The other proposals concerning Internal Broadcasting were discussed, but no consensus was reached. Variations on the concept of having special band segments set aside for either internal use or under Article 9 were raised; although these have little direct impact on U.S. broadcasting, they would likely meet with favor from Third World nations and thus be of indirect benefit to the U.S. in reaching agreement at Geneva.

Compatible Single Sideband (CSSB): The Notice proposes an unspecified future date in which broadcasters would "take the necessary steps" to convert from A3 (full carrier double sideband) to CSSB. The Group tended to feel this was unrealistic and overly forceful in light of continuing problems with CSSB.

Limitation on number of transmitters per band: The Notice proposes that "no Administration shall employ more than one transmitter per frequency band to provide the same modulated signal simultaneously to any zone or contiguous zones." In other words, if Radio Moscow's ECNA English Service were on 11750, it could not use any other parallel channels in the 11 MHz band.

No consensus was reached, but problems centering around Soviet broadcasting and jamming practices were discussed.

#### Band Definition in the Notice

1605-1800 kHz: The Notice proposes an upward expansion of the Region 2 MW ("AM") broadcast band, with various shares. This was not discussed by the group, but if adopted at Geneva would imply that the existing hobby definition of "SWBC" should be changed accordingly.

3900-4000 kHz: Unchanged. The proposal to shift Amateur from 3500-4000 kHz to 3400-3900 kHz, and thereby eliminate Amateur-Broadcaster sharing, was rejected because of an anticipated continuing need by aeronautical mobile for the 3400-3500 kHz band segment.

4063-4123 kHz: New band. The segment adjacent to the existing 75 metre band (4000-4063) was not adopted for Broadcasting for security reasons, making a "split" band necessary, (viz. 3900-4000 and 4063-4123 kHz). The new band segment would be shared with Fixed services.

5005-5060 kHz: The Notice proposes making this a new International Broadcast band rather than part of the 60 metre tropical band as it is currently. See "Internal Broadcasts" preceding, for details.

5900-5950 kHz: The Notice proposes continuing this as Fixed, adding a share with Mobile. Broadcasting 5900-5950, if adopted (see "Internal Broadcasting") would share with Fixed.

5950-6200 kHz: The Notice proposes no change in the 6 MHz Broadcast band. This was met with dismay, but the aforementioned 5900-5950 kHz addition, plus the 7 MHz proposals satisfied most objections.

6950-7250 kHz: Amateur exclusively, all zones (see following).

7250-7500 kHz: Broadcasting, all zones. 7250-7300 kHz would be exclusive, whereas 7300-7500 kHz would be a share with fixed services.

9500-9775 kHz: No change proposed in Notice. The sentiment of the Group was that an objection should be filed based, first, on current usage (9410-9920 kHz being largely occupied by broadcasting); and, second, on need (e.g., one broadcaster indicated it has been forced into another and less desirable band because no 9 MHz channels are available at the desired time).

11600-11975 kHz: Additional 100 kHz at low end of the 11 MHz band, shared with Fixed, proposed in the Notice. The Group weighed the feasibility of extending the high end 25 to 125 kHz as well, in view of the current usage (every channel from 11975 to 12095, inclusive, save 12090 and to a lesser extent 12065 is now used by broadcasting).

13700-13800 kHz: New Band proposed in the Notice, shared with Fixed. This would fill an existing gap between 11 and 15 MHz.

15100-15500 kHz: Expanded band proposed in the Notice. 15450-15550 kHz would be shared with Fixed. There were no objections from the group, although the impact on fixed voice services would be investigated, e.g., whether the share with fixed would be more effective if a category of fixed coded could be created to minimize harmful interference to fixed services by broadcasting in this and other shared zones. In particular, monitoring reveals 13700-13800, 15450-15550, and 17600-17700 kHz have a number of voice radiotelephone circuits in operation.

17600-17900 kHz: Expanded band proposed in Notice, shared with fixed from 17600-17700 kHz.

**21450-21750 kHz:** No change proposed in the Notice. A suggestion was made to shift 100 kHz from 26 MHz IB to 21 MHz IB for exclusive use, with Mobile/Fixed moving from 21750-21850 kHz to 26 MHz to clear spectrum space for broadcasting.

**25860-26100 kHz:** Reduced broadcasting band. Current usage, even during sunspot maxima, suggests this band can be vastly reduced for use by broadcasters and allocated instead to other services. Further reduction is under consideration (see 21450-21750 kHz). Sporadic E in jammed or unjammed services was not discussed.

Although the Fifth Notice does not resolve all the critical problems facing International Broadcasting, it goes a long way in the right direction. The next Notice may rectify some of the problems highlighted by the Working Group.

Steve Selwin relayed a point made by BBC representative Kieth Edwards at the WARC-79 meeting recently held in Europe: With improved ITU Regulations, it should be possible to make do with less bandspace than is the case under existing regulations. Even though a 50-100% spectrum increase between 3 and 22 MHz for International Broadcasting may appear inadequate, taken in the context of improved frequency utilization techniques, it is potentially sufficient. The U.S. is thus contemplating whether Article 10, which is the primary shortwave frequency allocation mechanism for Broadcasting, should be revised either at WARC-79 or at a post WARC conference.

Thus far, the Working Group has not discussed in depth the reported interest on the part of smaller nations to have frequencies allocated on a per-country basis, regardless of usage. While such a proposal would place smaller broadcasting administrations on a more equal footing with major broadcasters, the practical result might be to drive major broadcasters out-of-band on a far larger scale than at present, while simultaneously creating vacancies in-band.

Comments from members are welcomed by Larry Magne, 15 N. Central Ave., Philadelphia PA 19111.

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## Mailbag

Ferry Ferrell writes to issue a warning that potential receiver trouble may result when rectifier tubes are replaced with diodes as described by James Wilson on page 4 of the July FRENEX. Perry says the filter capacitors may pop

and suggests that the B-plus voltage be reduced by inserting a 39-50 ohm high wattage resistor in the lead from the transformer center tap to ground. The value of the resistor depends on the rectifier tube and could be as low as 22 ohms or as high as 120 ohms, (both rare). In anycase, 50 ohms at 10 watts is a good starter.

+++++

Jay Golden of Chicago writes that he has recently received a letter from NASWA member Scott Newman, who is in Los Angeles, Chile, as an American Field Service exchange student. Scott has done some SWBC listening there and reports that the following are easily heard in Chile:

Radio Universidad de Concepcion, 6135 kHz @ 1400 GMT  
 Radio Cooperativa, 6010 // 9690, same times  
 Radio Nacional de Chile, 6190 at 1500 GMT  
 Radio Pyongyang, 11535 at 1700 GMT  
 Radio Splendid, 5985 // 11880 at 2100 GMT  
 Radio El Mundo, 6120 at 2100 GMT  
 Radio Minería, 9750 at 1500 GMT  
 Radio Quillabamba, 5025 at 2200 GMT

Scott also notes that VoA and BBC are less frequently heard than are Radio Moscow, Feking, Pyongyang, Cuba, Radio Peace and Progress, and Sofia. Scott is using an old Hallicrafter S-40 receiver.

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# QSO/NASWA

letters to headquarters



Edward C. Shaw  
P. O. Box 7053  
Lexington, KY 40502

SANYO RP-8880 DUE THIS FALL. From member Jay Golden comes word from Sanyo that they will soon enter their new RP8880 on the market for about \$300. An illustration and specification sheet shows this one should be superior to the current Sony and Panasonic portables. Features include general coverage, 3 watt audio amplifier, revolving AM antenna element, BFO and pitch control, selectable bandwidths, antenna trimmer, separate RF control; all in addition to the other features found in the Sony/Panasonic models. We'll wait for someone to come up with a technical manual and consumer's report.

THAMES DX CLUB member Gerry Bishop announces that the SPADES and MAD men (Philadelphia and N.Y. DX groups) held a joint communique on 10 July at the Jeff Hambright QTH in Denville, NJ. About 25 members attended, bringing such gear as FRG-7's; RF-200's; ICF-5900's; Grundig Satellite, and HQ-200. Afternoon loggings accomplished included Vietnam, Uganda, Pakistan, Saudi Arabia. Daa Robinson's QSL collection was on display, and DX skills were tested by interval signal tapes. This is the kind of thing we need more of.

KUDOS FROM DALLAS. The person(s) who make the covers and other artwork in FRENDX do a good job. Also, the NASWA directory helped me meet a lot of people in the Dallas area. For a long time, I thought I was the only one. I wish I had more technical knowledge and where to start gaining it. 73's Charles George, Dallas, TX.

WHATEVER HAPPENED TO CME'S? The last one took place in March 1976 and the last one before that was in August of 1975. Who is our competition Chairman now. These Coordinated Monitoring Events provide some exercise, and I would like to see many CMEs as they are a type of frequency list which one can use as a serious DX tool. What about a 25 meter band CME for September? Perhaps one for 60 meters could be planned for this winter. 73, Peter Schipelliti.

HANDICAPPED AID EQUIPMENT DRIVE. HAP enters its fifth year with great optimism. The efforts made by HAP's publicity director, Lawrence Cotariu are finally beginning to gel, as news of this service is reaching more disabled persons than ever before. The influx of new members severely taxes HAP's abilities to provide services and equipment, so vital to successful therapy for disabled persons. HAP desperately needs equipment...receivers, headphones, tuners, gadgets, antennas supplies, books, etc. Your donations are earnestly and gratefully appreciated. If you have more receivers than you can really employ profitably, DX-wise, then perhaps you might send it to HAP. HAP will pay all shipping costs. Contact Wayne Davis, 27 Cleveland Avenue, Trenton, NJ 08609.

DXING PLUGGED ON AN AIRTIME. Member Tom Milko of Denver, CO writes to inform us about Denver's KFML personality Rolf Gunnar who often plugs SWLING and plays tapes of various catches from Moscow, RSA, SBC, etc. And, a big hand for Rolf at KFML for letting his audience in on the competition.

RADIO SHACK TO DROP THE DX-160? Horrors!! From several different sources comes word that Radio Shack is clearing house of the DX-160 models for a sell-out price of \$139.00. On the otherhand, my last visit to a Shack showed the sale was off and the price raised to \$169.00! What's going on, here? Could it be that Radio Shack is abandoning the hobby for CB and hi-fi gear? Could it be that Radio Shack might soon spring its own model portable on the market (ala Sony/Panasonic/Sanyo)? Thanks to several writers.

ELEMENTARY ELECTRONICS MAGAZINE for July-August has interesting articles on frequency counters, the Soviet noisemaker, and DXing the two Chinas. Run right out and get your copy today. And, you might like to contribute to Don Jensen's column while you're at it.

MORE ON FREQUENCY COUNTERS. Every month, the magazines carry advertisements for less expensive and competitive instruments. Most are kits. Some are completed units. A neat unit I've tried and handled is the B&K model for about \$120.00. It runs on self-contained batteries and provides either one decimal KHz or 4 decimal MHz readings on a six-digit display.

ANARC CONVENTION WEEKEND. At this writing the convention must be going on full-stear. The latest letter from chairman Jeff White said they expected visitors from 16 states and provinces. We'll be happy to have someone's report on the convention, complete with photographs, if available. Please contact Jerry Lineback at his SWC Section address.

WHERE DO WDX CALL NUMBERS COME FROM? This chestnut question comes up about twice or so every year and it's no problem to advise NASWA members herewith. The WDX call letters are a non-official registration operated purely for a consumer service by our colleague Hank Bennett. Hank can be reached at his address of P.O. Box 3333, Cherry Hill, NJ 080334. The registration certificates are very attractive, and suitable for framing. They cost a couple of bucks or so and you might have to wait in line a bit.

IS THERE A SAFE-FROM-LIGHTNING ANTENNA? Bobby Dunnigan writes to complain about thunderstorms in his Boone, NC area. A common complaint, Bobby. But, thunderstorms will always be with us. Lightning is attracted to high places, especially metal structures and wires that lead to the ground. Lightning might cause some damage to a receiver, but I suspect chances of lightning striking your antenna are poor. If you are really worried, then you might install a spark gap "blitz-bug" lightning arrester (sold by TV antenna installers). A big bolt of lightning would jump the gap and ground itself before getting to your receiver...maybe. A greater probability of lightning damage stems from a bolt striking power lines in your neighborhood causing a momentary surge of higher voltage into your house. Such an occurrence had twice popped my rectifier diodes this season.

CANADIAN PRICES FOR POPULAR RECEIVERS. John B. Watson in VE3 country at Thunder Bay would like to see future reference of receiver prices to be in both U.S. and Canadian \$. This ed. will be happy to comply, John, as long as I'm able to obtain price quotations from our Canadian members...and there are many.

NU-ACE QSL ALBUM. My sincere apologies for mislaying the contributor's ID on this newsworthy item. Anyway, Nu-Ace, the photo-corner people offer an attractive album with 10 pages in it for holding your QSL cards. Comes with size 3P pages to hold 3 QSLs on either side. Other page sizes available are 2P for larger QSLs (two QSLs on each side); or the 1P (one QSL or QSL letter). Write Nu-Ace Art Company, 24 Gould Street, Reading, MA 01867. Send a stamp for their brochure. Last time I looked, the album was about \$6.00 or so.

DX EQUIPMENT FROM U.K. Autek's QF-1 and MFJ are not the only companies to offer peak and notch filters for nulling out heterodynes. Stephens-James LTD of Lancashire, England, Controls width of the peak or notch and chooses what audio frequency to peak or null. £22 airmail (About \$42). Also available...a Xtal calibrator with markers for 500, 100, 50, 10, 5, and 1 KHz. Uses 9V battery; requires no hookup to your receiver, but radiates its own signal from small antenna... £21.50 (\$33 U.S.). Interested buyers can write me for address, but I have not much more information than this.

PROGRAM COLLECTOR'S GUIDE A novel idea in club business has been developed some California members. Their purpose is obvious...to record and preserve programming off the receivers. A very good beginning article on buying tape cassettes is available from PCG, 8475 Golden Ridge Road, Lakeside, CA 92040. It was page 5 of their Volume 1, No. 1 issue of PCG.

# NORTH AMERICAN RADIO CLUBS

BY: **Tom Gavaras**

The 1977 Association of North American Radio Clubs (ANARC) convention began unofficially at nine o'clock in the morning on Friday, July 25th at the Howard Johnson's Motor Lodge in Palatine, Illinois. Those present had a chance to look at the equipment displays, grab the literature from clubs and radio stations and talk to the other DX-ers as they arrived.

Later in the evening, the ANARC convention officially opened with greetings from the ANARC Executive Secretary, Dave Browne. Then convention host Jeff White read messages from well known radio personalities from around the world. After the opening introductions, a Handicapped Aid Program (HAP) auction was held. World Radio & Television Handbooks, Twenty-four hour clocks, short wave books, cards from Radio Canada International, records, a transmitter tuned to 31 meters (hi) and other goodies were auctioned off to benefit HAP. Over \$100 was raised for this worthwhile cause.

After the auction, an Interval Signal and Language Identification quiz sent from Ian McFarland at Radio Canada International was given. First place for the Language Identification contest went to Mr. DX Montage himself, Alan Brooks of SPEEDA. First place for the Interval Signal contest went to Tom Gavaras of NASWA. Prizes consisted of RCI transcription albums, books from Deutsche Welle outlining the history of broadcasting in Germany and Radio Berlin International buttons. After the quiz, the meeting broke up for the evening.

On Saturday, a bus full of ANARC conventioners headed for the largest shopping center in the world, The Woodfield Mall. The first talk at the Woodfield Mall's meeting room was a panel discussion concerning the SWL/DX controversy and International Broadcasters Year: 1978. The speakers were Jeff White, Clayton Howard, Alan Brooks, Dave Browne and Alfred Thornton.

Next, John Trautschold gave an informative speech on technical monitoring for short wave stations. During his speech a recording of two short wave stations were played and everyone was asked to give the recordings a SINPO rating. The diversified range of the ratings was the basis of a discussion on the accuracy of the SINPO code.

Before the break for lunch, one of the top rated DX-ers in the world, Donald Jensen, gave a talk which dealt with receiving, identifying and verifying the rare radio stations, proper reporting, etc. This speech was called "On to the Top."

After the lunch break Clarke Ingram, Peter Crisko, John Zondle and Mike Hogan of the Worldwide TV-FM DX Association gave a presentation on preparing a DX club bulletin. Mike Hogan then gave a talk on the psychology of DX-ing and proceeded to tell us why we do the things that we do. To stay up all night and listen to static does make people wonder! Next, Clarke Ingram spoke about the non ID-ers. Those are the medium wave and FM radio stations who ID as K595 or Z-100 instead of using their legal identification. With a little luck, the worldwide TV-FM DX Assoc. hopes to have these types of ID's banned. Bruce Elvin then gave a talk about the FM SCA adapters.

The final talk before everyone returned to the Howard Johnson's Motor Lodge was by Greg Ravenhorst, Dave Browne, Alan Brooks, Pete Grenier, Jeff White and Tom Gavaras concerning local DX Clubs. The formation, existence and growth of local DX clubs was one of the many topics discussed.

After the delicious banquet, the International DX-er of the Year award was presented to Clayton Howard of Radio Station HCJBI. The DX-er of the Year Award went to NASWA's Listeners Notebook Editor, Glenn Hauser! Congratulations to both of you!

John Paxton, who is a correspondent in Chicago for the Voice of America gave a very fascinating talk on his experiences with the VOA. During his speech, he informed us that the VOA will begin using satellite feeds to relay programs to the Greece relay stations in a few weeks. The next speaker was Clayton Howard of HCJB DX Party Line. He gave a very interesting talk on his early days in radio. Later, he showed slides of Ecuador, HCJB and other radio stations in Ecuador.

Sunday was ANARC day. Reports were read from the ANARC committees and member clubs. Dave Browne then reviewed the history, the present status and future outlook for ANARC. At this time, many started on their journey to home. Thanks go to the Woodfield International DX Club for hosting this very successful convention!

# Listeners' NOTEBOOK



• Editor: Glenn Hauser, WUOT, U-Tenn.,  
232 C&E Bldg., Knoxville, TN 37916

**PROPER CREDIT** Other clubs and broadcasters may use material from LN provided due credit is rendered to the original reporter and the NABWA Listeners Notebook. This courtesy does not extend to closed organizations such as Fine Tuning, Numero Uno and the Ontario DX Association which do not allow reciprocal access to their publications. BEC Monitoring Service items are copyright and may not be further reproduced without permission. All times, days and dates in LN are day/month GMT u.o.s.

**ENGLISH SCHEDULES** ZIMBABWE RBC Gen Svc from Gwelo: 6020 0800-1400; 5012 at 0545-1545; 3396 at 0350(Sun 0500)-0615 and 1515-2200 (Sat 2300; Sun 2102); 2425 0350-0445, 1700-s/off (BBGMS 6/77)

VATICAN VR to Nam 0100-0115 reactivated 11845 ex-11700 due Clarin // 5995/9605 (Richard Wood)

USSR R. Moscow was expected to drop many 11 Mhz freqs to Nam 1/8, returning to 7 & 9 Mhz: 7130 (Minsk?) ex-9665; 7165 Kiev ex-9600; 7250 Tula ex-11850; 7250 Moscow ex-9685 at 0200-0400; 9655 ex-11870. Published sked shows 15100 and 15180 dropped for PCS 1/8 but replacements not indicated; maybe 9610 Khabarovsk and 11755 Vladivostok, which are listed effective 4/9 (UHN July)

SOUTH AFRICA R RSA to Nam 877 (September 4-November 5) at 2230-2320 9585/11800/11900 (R & W) more, LN-10

ROMANIA (Cf July LN-2) R Bucharest Nam svc matches, but the rest: 0530-0600 Af 15340/11830/9685; 0645-0715 Pac 17835/15250/15185/11940; 1200-1230 As 17825/15345; 1300-1330 Eu 15250/11940/9690; 1500-1530 As 17850/15250/11940; 1730-1800 Af 17825/15365/11790; 1930-2030 Eu 11940/9510; 2100-2130 Eu 11970/9665 (BBGMS 5/77)

PHILIPPINES (Cf July LN-4) R. Veritas present sked: 0100-0200 11725/15280; 1400-1500 9605/11780/11955/15215 (Allen Dean, WDXG)

PAKISTAN R Pak complete Eng sked (Cf July LN-2); 0230-0245 21590/17830; 0340-0345 0430-0445 on 21590/17830/15325; 0530-0540, 0800-0815 on 17830/17750/15325/15115/11885/11672; 0930-0935 15325/11885; 1100-1115 17665/15115; 1345-1600 (also in Urdu/Bengali) 11885/9660; 1630-1645 15520/11680; 1815-1820 11640/9790; 2115-2145 11640/9790; 0030-0035 15325/11750/9645. Frequencies vary (R. Pak via BBGMS 5/77) At 2115-2145 on 11650 ex-11910 // 9790 (Padula, RA)

NIGERIA VON 0655-0835 pgn was extended an hour 3/7 to 0555-0835, heard in Europe on 15120 (BBGMS) And in Nam on 7275 (gh)

NEW ZEALAND (Cf Jun LN-2) RNZ changes from 13/6; 15130 2030-0450; 6105 0500-1030 (NZ DX Times via Graham P. Brown, WDXG) On 6015 ex-11960 at 1800-2015 says R. Nederland (Ron Cross, WDXG) A bit ambiguous, that; suppose it was Cushen who said it (gh) MALTA; KOREA N; LN-10

JORDAN Amman radio says from 1/7 its DS Eng would be continuous daily 0530-1730. Formerly there was a break 0600-1000 (BBGMS 14/7) Does this apply to SW xmsn? (gh) INDO; GUAM; LN-3

FINLAND R. Finland announced 16/7 that Nam svc at 2330 was on 11735 ex-11755 (Bob Underdown in AR) Suggested by ANARC FRG to avoid Cuba-11760; seems a good move for east coast, but in Midwest QRM from VON-11740, RN-11730 (Bob Zilmer, WI, SPEEDXGRAM) Only changes anticipated for 877 involve the 2030-2055 xmsn where the 100 kW xmsr on 200° is 9550 ex-15265 (sked)

CZECHOSLOVAKIA R Prague: 0100-0200 repeated 0300-0400, both 11990/9630/9540/7345/5930; 0730-0800, 0830-0900(Sa/Su 0930) 21700/15396/11855; 1430-1500 21670/17840/15110/11990/9605/7345; 1530-1630 same plus 6055; 1630-1700 7345/5930; 1730-1830 21670/17840/11990/9605/7345/5930; 1900-1930 7345/7245/5930; 2000-2030 7345/5930; 2130-2200 6055/1286. "Interprogramme" includes Eng 0745-0800, 0845-0900, 0945-1000, 1045-1100, 1145-1200, all 9505/6055; 0030-1000 9630/6055 (BBGMS 5/77)

CYPRUS BEC EMR carries WS on new 11735 0145-0330 ex-11955 which picks up at 0330-0430 (Robert Jones, RA DX 10/7) A compensation for blown down 1410/1412 kHz Masirah towers (gh)

BULGARIA R Sofia: 0000-0100 9705; 0130-0400 relay Moscow 9700/9530; 0430-0500 9530; 1830-1900 17825/11950; 1930-2000 11720/9700; 2030-2130 15310/11765/11735; 2130-2200 11750/9745 (BBGMS 5/77)

BELGIUM ERT4 at 1630 to Af on 15280 ex-9745 // 11940 (Maghakian, Erhart, SPEEDX 7/77)

**BANGLADESH** New RB sked: 0445-0515 15400/17890/21685; 1230-1300 15520/17890; 1815-1915 9500/11650 Noel Green, UK, DSWCI via RA DX 4/7) The 1115-1145 in English for Nepal on 9615/9500 has been changed to Nepalese (BBCMS 30/6)

**AUSTRALIA** As of 22/6 RA at 1130-1730 on 9690 ex-9515; 1100-1300 as of 26/6 on 11855 ex-11740 (Club Forum 25/6 via gh) more, LN-6

**ANGOLA** RNA external svc news in Eng at 1145-1200 is on 9660/7245 (BBCMS 7/7) more, LN-6

**ALBANIA** R Tirana: 0000-0030 9750/7065; 0130-0200, 0230-0300 0330-0400 7300/6200; 0430-0500 9485/7300; 0630-0700 9500/7065; 0700-0730 11985/9500 as is 0930-1000 and 1100-1130; and 1400-1430; 1530-1600 11985/9480; 1630-1700 9480/7065; 1730-1800 9500/7075; 1830-1900 9480/7065; 1930-2000 9500/7075; 2030-2100 9480/7065; 2200-2230 9480/7065. R. Peking relay 0100-0200 9780/7120; 0300-0400 9780/7120 (BBCMS 5/77) Chinese technicians are leaving Albania as relations cool (John Cooley, ABC commentary 11/7 via gh) Man R. Peking relay be far behind?

**OTHER SCHEDULES ZIMBABWE** BBC African svc from 100 kW Gwelo 5975/4828/3306 used seasonally, and 10 kW 2336; 0228(Sun 0458)-2015 (Sat 2200), mostly in Shona and Ndebele, but some Nyanja and English (BBCMS 6/77)

**ZAIRE** A new stn, R. Voice of Education and Development is hrd daily on approx. 3400/5050 at 0600, 0900, 1200 or 1300 and 1700 with 30-60 min xmsns. Per annts they BC from Bunia in the 60/90mb, in French and Swahili, usually musical reqs. Also, VOZ Kisangani is testing new xmr on approx 7800 0700-1200, reports wanted (Johnan Olema-Akio, Uganda, SCDX 28/6)

**VIETNAM** Hue regional obs since 10/6 in Viet on 4680 1000-1530, 2200-2400; local pms are introduced by "This is the Voice of Binh Tri Thien"; also relays Hanoi DS (BBC MS 23/6)

**USSR** All-Union Radio SW sked of First pgm (I), 0200-2200; First (A) 1900-1500, First (B) at 2100-1700, First (C) at 2300-1900, and Third pgm 0400-2000 (3): 6085 3 06 $\frac{1}{2}$ -20  
 15490 A 04-12 11920 I 0545-13 9690 I 19-19 $\frac{1}{2}$  9490 C 23-19 7335 C 22-02 5995 I 02-05  
 15480 B 04-17 11795 3 05-20 C 23-19 9470 C 23-01 7300 I 06-21 I 15-21  
 15460 A 01-12 11750 G 05-17 9665 I 13-20 7440 I 02-07 7260 I 02-05 5940 I 02-21  
 15275 B 05-14 11700 C 05-16 9630 C 00-16 7400 C 15-19 $\frac{1}{2}$  7210 C 23-05 5930 I 02-07  
 15165 C 05-13 11690 3 04-20 9605 C 08-16 7370 I 02-06 7200 I 19-19 $\frac{1}{2}$  5910 I 02-08  
 15130 I 06-12 11630 C 03-13 9575 3 04-16 I 13-21 C 23-04 I 15-22  
 12045 I 08-16 $\frac{1}{2}$  9800 I 0545-16 9540 I 20-22 7355 3 04-20 C 17-19 5905 I 05-08  
 11950 I 19-19 $\frac{1}{2}$  9785 G 05-13 3 04-20 7350 I 16-19 $\frac{1}{2}$  7145 I 02-05 5900 C 23-06  
 C 01-19 9745 I 11 $\frac{1}{2}$ -14 9490 I 19-19 $\frac{1}{2}$  7340 I 02-07 7125 C 00-02 (BBCMS 6/77)

First Pgm SSB feeder service, constantly changing, as of mid-June; (also BBCMS 6/77)  
 19210 C 05-15 15780 I 02-07 13710 C 03-19 12175 C 01-19 7550 C 23-03 7410 C 23-04  
 16330 C 04-16 15600 C 04-19 13380 C 03-18 10740 I 06-19 7540 I 19-19 $\frac{1}{2}$  6890 I 03-06  
 16140 I 06-16 14850 B 04-17 12250 I 04-19 $\frac{1}{2}$  9150 A 19-24 $\frac{1}{2}$  C 15-19 C 00-03  
 16030 A 04-15 13710 I 19-19 $\frac{1}{2}$  12175 I 04-19 $\frac{1}{2}$  7925 B 21-03 C 23-04 5d15? C 23-01

**USA** WINB J77 skeds on Jun LN-12--the second line is correct. Non-English programs: Tue 1830-1900 Arabic; Wed 1830-1900 Span; Mon-Fri 2015-2030 Russian; 2230-2245 Wed Fren; Fri in Greek; Mon-Fri 2330-2400 Span; Sun 0030-0100 Spant; Sun 1745-1800 Russ; Sun 2200-2230 Latin. The last is the traditional mass, exactly the same tape every week, a big hit among Lefeb-writes in Europe who can hear it notherwise. (gh) WYFR-Scituate's transmitter sked for J77:  
 #1: Sun 1252-1600 11705; daily 1600-2300 11805; 2300-0200 11855; 0200-0500 5965. (via Arthur  
 #2: Sun 1200-1600 17785; daily 1600-2300 15440; 2300-0200 15440; 0200-0500 11855, Thompson.  
 #3: Sun 1200-1600 15110; daily 1600-2100 15110; 2100-0100 15135; 0100-0500 6155, WYFR CB)  
 #4: Sun 1252-1600 15440; daily 1600-2300 17845; 2300-0200 15215; 0200-0500 9715.  
 #5: Sun 1252-1600 15150; daily 1600-2100 17845; 2100-2300 17875; 2300-0100 11855, 01-05 9525

If you've had trouble getting VOA to send you its Frequency Schedule, you may have made the mistake of writing to the address on its cover, which has only a few copies. They have a whole stack to mail out at: VOA PIO, Rm 2137, Washington DC 20547 (Dave Walcutt, DG)

**UGANDA** UBC HS has dropped 7110; all Blue Channel SW are on 5026; 0300-0545, 0600-1130 Sat, 1345, Sun, 1415, and from 1300 Sat. from 1400 and Sun 1430, till 2115 (sic- gh) Red Channel unchanged on 4976/7195 (Johnan Olema-Akio, Entebbe, SCDX 28/6)

**LIBYA** V of Arab Homeland, Tripoli, Libyan radio's ES pgm, has returned to its original timing, which varies, at 1900-0100 on 6185, and maybe 17800; no more until 0300 (BBCMS 23/6)

**LIBERIA** (Of Jun LN-4) The VOA 8 kW xmr is MVA-22, 15 kW but 8 when on 'broadcast'. Strange thing in freq sked mentioned as 50 kW: But J77 used as follows: 0600-0800 on 6180; 1000-1100, 1130-1400 on 10880 SSB, and 3990 1600-2200 English. At 0300-0500, 3990 is MVA-8, 50kW and 0500-0745 3990 is from MVA-21, 40 kW (Victor Goonetilleke, VOA monitor, Sri Lanka) tx:

**JIBUTI** (ah, quick de-Francization in orthography -gh) Since 30/7 Jibuti radio obs 1600-1800 on 4780 with hour each of Somali, Arabic, ID as "The Radio of the Republic of Jibuti" (BBC)

**IRAQ** Baghdad now 11905 ex-17770 for VOM pgm 0228-2320(BBCMS 7/7) 6030 on VOM too (BBC 14/7)

INDONESIA VOI's complete ES sked from 100 kW xmters at Jakarta-Tjimanggis on 11790/9585: (I believe BECMS has mixed their orthographies, as "TJ" is now spelt with a "C" -gh)  
01-02 Eng, 02-03 Indo, 08-09 Eng, 09-10 Malay, 10-11 StdCh, 11-12 Indo, 12-13 Jap, 13-14 Fr, 14-15 Eng, 15-16 Indo, 16-17 Arab. Note change in some English timings, none now specified as to Nm but SEAs & Pac, ditto others except Malay, Japanese, French also to ME as Arabic is only (BECMS 6/77) Usually reported on 11789; do antennas actually change beams? (gh)

GUAM KTRW's equipment tests were carried out on a completely different set of freqs than their regular programming which was tentatively sked to commence 15/7 on this sked:  
0930-1000 11780/11900 English; Sun-Unshackled, Mon-Night Sounds, Tue-Sat Back to the Bible.  
1000-1100 11780/11900 on Japanese & Indonesian patterns of 3450 and 2550 (also at 0930? gh)  
1100-1300 11780/9575 on Chinese patterns of 3150 and 2850 ("pattern" may not mean lang -gh)  
1300-1330 11780/9575 on SE Asia pattern of 2850. Nighttime (sic) hours to be added later.  
(via John Mainland, NZ; Dave Walcutt, IL)

GERMANY WEST/ANTIGUA/MONTSERRAT DW morning German to NAM 1330-1350 has deleted 11865/11970 and is now on 9605 and 11810 from West Indies; 11850/15245/17800 from Germany (R. Wood 9/7)

FRANCE TWR Monte Carlo noted 1945-2000 Polish on 7145, unlisted WRTVH 77 (Mainland, NZ)

DOMINICAN REPUBLIC R Clarin IS 11700 seems to overcome its power problems and is now noted generally signing on 1900 and off 0200 with National Anthem (Richard E. Wood, NY. 9/7)

CHINA (Of May LN-5) R. Peking DS minority lang pgms remains the same except; 1200-1255 in Mongolian is now on 5915/4190, but no longer relayed by Sillinhot, Huhehot, Hailar, Tungsheng xmters. The 2230-2325 Mongolian is on 6645 ex-4770. The 1000-1025 Korean is now on 8260 ex-4620 // 6430 (BBC MS 16/6) PLA Fukien Front Station, broadcasts to offshore islands and Taiwan; Network One mostly in Std Chinese, but some Amoy;

7853 1000-1057 6765 0118-0530 5265 1000-1259 5240 2241-0530 3640 1300-2243 2490 1157-0117  
0156-0530 5900 1000-1226 2243-0530 4330 1058-0155 3535 1300-2240  
6765 1000-1156 2312-0530 5240 1000-1259 4045 1000-0530 3000 1227-2311 (BECMS 6/77)

PLA Fukien Front Broadcasting Station Network Two in Amoy and Standard Chinese:

8195 0230-1118 6400 0230-1126 5170 0230-1254 4140 0916-1900 3300 1127-1900 2430 1255-1900  
7380 0230-1118 6000 0230-1200 4840 0230-1900 3900 1124-1900 3200 1119-1900  
7025 0230-1126 5770 0230-0915 4380 0230-1900 3400 1119-1900 2600 1201-1900 (BECMS 6/77)

Peking external services broadcasts to Taiwan: 9170 2000-0610\* 6790 1226-1900 4770;  
15880 0015-0610\* 15710 2315-0610\* 11100 2000-0610\* 0830-1900 5125 2000-2314 1439-1900  
0830-1225 0830-1429 0830-1438 6790 2000-0014 1430-1900 (BECMS 6/77)

AUSTRIA Now this country is experimenting with out-of-band broadcasts! ORF CE says tests are on 5925 at 1900-2200; 12015 at 1400-1600; instead of 6155, 11855 resp. (RADX 24/7)

ANGOLA Per anmt on 8/6, RNA is 24h on 7245/4820/3375 (BECMS 16/6) \*(CHINA) Sun to 0705

MISCELÁNEA RADIAL VENEZUELA On 6150, R. Armonía ex-R. Guacálpuro, at Charallave operates 24h (WRTH LA News via TDYN 4/7)

USSR R. Moscow frequency changes differ from most other international broadcasters who always work on the first Sunday in Mar/May/Sep/Nov. Moscow makes interim changes on the first Sundays in March and September; major changes on the first Sundays in May and November; and in the 3rd weeks of April and October--usually Thursday (Arthur Ward, UK. WDXC Mid-monther) Soviet harmonics are getting attention from both sides. On 23520 tent. HS 2 x 11795 at 1630; 24140 tent. HS 2 x 12070 at 1620; 30260 Eng to Af, Simferopol', 2 x 15130, mixing with R. Liberty and jamming at 1500; 30750, RFP Eng to Af/As, 2 x 15375 after 1400 (Mike Barraclough, UK, WDXC) 19520, R. Moscow? in Russian, 2 x 9760, 1646 17/6; 23500, R. Moscow in Russian, 2 x 11750, 1055 17/6; 25075, Vladivostok, Russian, 5 x 5015, 0755 16,17/6, very strong and consistent; 22440, R. Moscow? in Russian, 3 x 9480, 1003 16/6 (Gib Junqua, Japan) R. Moscow Korean svc can be heard on 14475, 3 x 4825; 24125, 5 x 4825; 19300, 2 x 9650 at 0930 26/6. Vladivostok 5015 can be heard on 30090, 6x; 25075, 5x; 20060, 4x; 15045, 3x. (Satoshi Wakisaka, Japan) Glad to see 30090 still putting out; I logged it in Albuquerque on 6 Mar 1967 at 0059--but the sunspot count that date was 148: (gh)

USA Learned at a visit to VOA-Washington: All west-coast VOA xmters are now satellite-fed; Greenville is remote-controlled from Washington, via microwave links; and, there is a guy in the studio whose full-time job is to adjust speeds of various tapes made on battery equipment overseas, such as interviews, for broadcast (David L Walcutt, IL) KGEI again analyzes it mail. In one 'typical' week, of 9/5/77, 598 letters were received, about half and half from LAm and Asia except for 17 from elsewhere; 52% of the Latin-American mail was from non-evangelicals not now responding to the gospel, while the figure for Japan was 92%. Every week, KGEI gets between 500 and 1200 letters. Contributors to KGEI are offered whatever of the thousands of Japanese and LAm stamps they want (Jim Bowman in KGEI Newsletter via gh)

URUGUAY R EL Mundo is the new name for R. Sur on 6000 (WRTH LA News via TDYN)

TAIWAN VOFC in Chinese hrd on 23650, 2 x 11825 at 0906 16/6 (Gib Junqua, Japan) More...

TAIWAN A recent QSL from the Central BC System for 11905 says that freq is beamed 342° toward the north part China mainland; 7250 is at 300° toward central China. Deputy Director Chen Mei-sheng continued, "Your part of the world as we figure is directly in the sky wave reception zone of the former frequency and the latter is somewhat sidewise. Cause of the sky condition, sometimes you can hear both of them." (Geoff Cosler, Burwood, Victoria, 5/7)

TAHITI I notice 11825 is now around 11826.2. It looked like they had drifted a bit a couple of months ago, but nothing like this (Dave Walcutt, IL, 14/7)

SRI LANKA For 11½ hours, SLBC had a North American service, on 11955 and 9720 at 1830-0600 21-22/7, with election returns. Actually, just an extension of beams on ME/Eu/NAF, but specified to USA & Canada (via the Colombo Sunday Observer, 10/7 via BBCMS)

SPAIN Interesting harmonics heard at Letchworth include on 28710, Spain HS relay at 1445, 3 x 9570 (Mike Barraclough, UK, WDXC Mid-Monther)

SOLOMON ISLANDS (Cf July LN-7) Am still hearing 9545 as early as 0630, good-to-poor, lots of rock and TGs. One morning the 0700 RA world nx was interrupted by "Bulletin--reception is not clear, we'll try another frequency; we'll be back soon." Played 75 sec of pop mx, and were back. My loggings seem to indicate later sked on 9545 than the published one. They haven't answered a very comprehensive report--maybe they think 9545 is shut down when I log them: 0520 also audible but too noisy; always seems // 9545 (Syd Osterman, Toronto, 10/7)

SEYCHELLES (Cf July LN-7) The new government has OK'd FEBA's continued operation without interruption (FEBE Newsletter 7/77 via Gerry Bishop, PA) FEBA was back on 27/6 (Victor Goonetilleke, UADX) It was observed shortly after 1230 27/6 with usual sked on 15325 (BBCMS) Arabic 0745-0445 now on 11900 ex-11845; Farsi again 0310-0340 on 11755 (John Mainland, NZ) Lucky RCI, rid of 11845 QRM (gh) Back again 29/6 \*0307-0340\* on 11755 Farsi; also 3/7 \*0356 on 11800 IS and English, to Eaf, very poor; letter says now limited to 50 kW (Osterman Ont)

PULSER Sounding like the Soviet one, but don't think it's that; relatively narrow bandwidth of about 4 kHz centering on 4824/4835/4871.5/4885/4896/4902/4918/4926/4932/4944/4956/4974. All were OC at 0258, and all started at exactly 0300 with machine gun rat-tat-tat. Not nearly as loud as Soviet OTH radar on higher bands, but still enough to louse up most of 60m; past 0400 this night, but next night on only for a minute around 0330 (Pitt McNeill, TDYN, 24/6) Maybe US version starting up? Or Soviet would be weakish midsummer 60m (gh)

PORTUGAL Another 'station' 'dies': R. Liberdade pgms via Sines (SEE-nush, not SIGNS as they say on DX pgms) intended for Portuguese abroad were turned over to RDP as of 1/7. Frequencies and times remain the same: weekdays 2000-2100 on 9635; Surs 1200-1300 on 6115 (BBCMS 7/7 and 14/7) Are the xmtxs actually different, RDP ones rather than RTE ones? (gh) Harmonics: 30290, 2 x 15145 RFE; 30510, 2 x 15255 RFE; 30610, 2 x 15305, RCI Sines Ukrainian at 1500 (Mike Barraclough, Letchworth, UK, WDXC MM)

PHILIPPINES VOA Russian can be heard on 19260, 2 x 9630 around 0840 9/7 (S. Wakisaka, Jpn)

PERU A national broadcasting net to cover the whole country, was to begin 27/7, linking 35 stations via microwave, per the head of the Nat'l Info Svc (Lima Correo 27/6 via BBCMS)

NIGERIA Lagos radio announced 21/6 that NBC would start test xmtxs to southern Af in a few weeks. George Bako, Deputy Director-General, Technical Services, said this was necessary for Nigeria to get its message across to the Liberation movement. Dir-Gen Dr. Christopher Kolade says the Sogunle xmtx stn would eventually be turned into a training complex (BBCMS) VON on new 11770 8/7 1745-1758 Swahili or Hausa, into Eng 1800; good announcing only 7275/15120; ex-11900? (Pitt McNeill, DC) Also on 11770 at 0655 13/7, all English, announced //s as 7275/15120 (Syd Osterman, Ont) One is tempted to assume this is the new Sif svc (gh)

NETHERLANDS Sometime in July, RN ceased its OOB tests on 9895 and replaced it with various in-band channels (gh)

MONTSERRAT The DW xmtx here can be distinguished from the ones on Antigua by listening carefully to the "Caribbean relay station" IDs. The one from Montserrat is preceded by a short tone and tho by the same announcer is stressed differently, and is of a different length (Robert Hanner, ADXN) Another way possibly to spot Montserrat at least at one time was a noisy jamming sound it produced in contrast to Antigua (Robert Jones, ADXN) Risky (gh)

MALDIVES has fantastic modulation during a transcription from Seoul 1530-1600 Weds on 4740; but deteriorates dramatically when local anc comes on; clearly, something is wrong with their studio equipment. Their xmtxs were made in Maldives by a Sri Lankan engineer--one of the pioneer radio hams--from old surplus material bought in Europe (Victor Goonetilleke ADXN)

LIBYA (n waters) (?) R. Northsea, Mebo II heard for first time on 5/7 2241-2305\* on 6205v. Continuous pop mx in Eng, lite mx. At 2300 ID of "R. Northsea" sung several times, said to listen again at 1800 tomorrow; music to 2305\*; very good, almost no QRM; (Lauren Ware, VA) 6206v, often 2230-2300\*, long jingle IDs at ½ hr, then British DJ with frqs as 773/6205/90 MHz. The source of info that the Mebo II was leased for two years to Qaddafi and the Libyan govt was the magazine "Wavelength" and that's it, apparently. Could well have been a plant by ship owners Meister and Bollier, to get away with ECing from Euro waters. (continued...)

After all, how many Libyans have radios with VHF FM, and want to listen to pop music? (Pitt McNeil, DC) Well, the more limited range of FM and the ease of direction-finding on FM ought to give away its true location forthwith (gh) On 28/6 on 6205 at 1630 an ID as "The Socialist People's Libyan Arab Jamahiriyyah Broadcasting Corporation", then news, and at 1730 press review. Xmr went off at 1745, but back at 1756 with unannounced mx. At 1415-1600 there is a program in French, audible after 1530. On 29/6 the English pgn was announced as on 1406 kHz only and running past 1915, but still closed at 1745 on 6205. At 1800-2300\* it broadcasts Western pop mx and test xmsn annts in English. Subsequent observations show the French pgn replaced by unannounced music like 1800-2300; heard 10/7 at 1300-1600 (BBC MS)

LACS Vientiane overseas svc is on new 7070 as of 2/7; ex-7080 in mid-June. Same lang sked as in WRTH for 7145, which was freq and'd at 1330 in Eng. Fair sigs some nites but hum on carrier sometimes makes program almost inaudible; (Geoff Gosler, Victoria)

KOREA NORTH R. Pyongyang harmonics: 18752, Korean at 0846, 3 x 6160 16/6; 19016, Korean at 1653, 3 x 6338 17/6; 20310, Spanish at 0923, 3 x 6770, 14, 16/6, and strong nearly every day; 28260, Spanish 0955, English 1000, 3 x 9420, 16, 17/6 (Gib Junqua, Osaka, Japan)

JAPAN (Cf July LN-6--is FEN off the air on SW?) Checked 8/7 at 1300 and found 3910 and 6155 // local on 650; QRM on 11750 and 15260 so couldn't tell (Mike Hardester, Okinawa) FEN came back on SW in mid-June. Now omitting AFEN-Philippines as part of net ID at 1500 (Wakisaka)

INDONESIA (Cf July LN-6) RRI Jakarta, Programa Nasional can be heard on 15202. Nominal is 15200 //1715/7270/6045/4805. QSL from RRI Manado said new 10 kW xmr on 3215; and some RRI's are now running advertisements again (Wakisaka, Japan)

ICELAND Daily sked is 1200-1300v on 12175 from a site in the SE part of the island, intended for Icelandic seamen (Reykjavik is, of course in SW part -gh) Programs include mx, wx, mx and will be on extended sked during local elections in July 1978 and at Xmas (Finn Krone, DSWCI, via ADXN)

HUNGARY R. Budapest heard strong on 23820, 2 x 11910 at 1615 (Mike Barraclough, UK, WDXG)

GUAM KTWR hrd 13/6 with ETs (equipment tests) on 9505 0900-0909, 0943 IDs; also on 11705 17/6 at 0628-0723; 15155 19/6 0117-0159\*; 17830 19/6 0438-0506. Frequency announced in each (John Mainland, Wellington, NZ) A California DXer heard us on 11705 at 0600 11/6, our first day of testing. We're sorry about QRM to RNZ on 11705--the only 25m freq the FCC authorized during the testing period. It will not be used during those hours when we begin programming (David Fisher, KTWR Frequency Coordination, 24/6 letter to Walcutt, IL)

GUENADA If you're where R. Grenada is a toughie, listen to my August 18 R. Nederland DX Jukebox report for a tape of it (Aug 19 GMT too in NAm svc), and a different one on Espacio DX-1sta Sept 9 (and 10 GMT) (gh)

GHANA R. Ghana is still notifying listeners that all external freqs except 6130 have been suspended until further notice for technical reasons (Mike Richardson, Glen Falls NY, 5/7)

GABON The new R. Libreville xmr's at Mayabi seem to be on; R. Libreville has been IDed on 5105 kHz (M. Busse, GFR, SGDX 5/7) Oh yesh? See CAMEROON below (gh)

EGYPT The ISWBC textbooks always rank R. Cairo high on basis of pgn hours, many of them are on only one freq, hardly a match for VOA/Moscow/Peking 'shotgun' approach; but now, Cairo is trending that way. Heard closing Spanish pgn 0200\* announcing 7260/9475/11715/17845, the English would continue only on 7260/9475 (gh) R. Cairo now has three sites for SW: Mokkottam and Abis are both new, additional to the old Abu Zaabal complex used for 9805 (WDXG)

CHILE Pres. Pinochet inaugurated new MF and HF xmr's of R. Nacional, Santiago, per a R. Agricultura net annt 7/7 (BBCMS) R. Universidad Técnica del Estado is now off 6180 SW and is on MW 1210 only (WRTH LA News via TDKN 4/7)

COOK ISLANDS Per QSL for 3265 power is 500w, sounds more like 2000, call ZK6. Address given on the card is P O Box 126, Avarua, Rarotonga, (Geoff Gosler, Victoria, 5/7)

CHINA HS harmonics: 18104, Xilinnote PBS, 0958, 4 x 4526 17/6; 19694, Hubei PBS, 1051, 5x 3939 16/6; 20490, Beijing-1, 1437, 3 x 10245, 14/6; 22080, Beijing-2, 0727, 2 x 11040, 30/6; 23030, Beijing-2, 1023, 2 x 11515--fundamental jammed--16/6; 24704, Shanxi PBS, 0812, 4 x 6175--fundamental block by NHK--16/6. All in Chinese exc. 23030 Russian (Gib Junqua)

COLOMBIA (oops) On 2340, R. Boyacá, 2 x 1170, subdued mx, ID 0348 (Pitt McNeil, TDKN 20/6)

CANADA CFCX-Montreal (6005 kHz -gh) is very rarely heard in Australia, but Robert Yeo in Melbourne received the 500-watt relay CFCF MW, at 0800; Costa Rica was off (RA DX 10/7) I couldn't even hear them in downtown Montréal (Glenn Hauser, PQ) It's fun to see how SW stns get out on groundwave near their sites. Monitoring on the FRG-7 as I approached Sackville from the north, a bare 15 km away, UBC was as strong as ROI on 15325! In the town of Sackville NB within easy view of the towers, there was no trace (using the car's MW/FM whip antenna) of harmonics from 250 kW xmr's at Sackville (the VOA Greenville was audible on 2 x 15410, 30820!), whilst CBC's 50 kW on 15260 was putting a good signal out on 30520, 12/7. One or two BBC pgms a day are now played on tape from Sackville, improving audio (gh) more.

CANADA To save power, and because it is felt that under bad conditions 250 kW will get thru to northern Canada no better than 125 kW, the CBC NS is actually operating with half-power on all frequencies--tho a computer reading I saw put it at 148 kW; they usually run high. No wonder the NS has a mediocre signal here in the South! For those wondering about Sackville transmitter usage, we copied this sked from the control console, and should actually appear in the 'other skeds' section. #1 (250 kW) operates with 125 for NS on 9625; with 250 at 0600-0700 on 9660. This xmas is Mon-Fri only, by the way, tho not so shown in skeds, and Richard Wood reports this shifted to OOB 9785; #2 (250 kW) with 125 kW for NS on 6065/11720 /6195, and at 0600-0700 with 250 on 6140. #3 (250 kW): BBC 2156-0330 on 6175/6120, 2680; DW 0330-0550 6085, 2680; RCI 1900-2000 17760; 2000-2100 17820. #4 (250 kW): BBC 2156-0030 on 9510, 2320; RCI 0030-0130 9535; 0130-0427 11845; 0600-0700 Mon-Fri 11790; 1430-2100 15325 #5 (250 kW): BBC 1056-1330 5990 2680; 1430-1700 RCI 17820; 1700-2100 11855; 2157-2400 Mon-Fri 5960. #6 (50 kW): 1400-1430 RCI 15325; BBC (1456)1556-1709(1745) 15365, 1719; RCI 1800-2000 15260; 2258-0130 11940; 0130-0327 9535; 0330-0550 DW-9605. #7 (50 kW): 0600-0700 RCI Mon-Fri 6150; 1357-1430 17780; BBC(1456)1556-1709(1745) 9580, 2779; RCI 1800-2000 17820; 2258-0130 15190; 0130-0430 9655 (gh)

CAMEROON (cf GABON, LN-5) R. Yaoundé's DS was obs at 1845 16/6 on new 5105 // 4972.5 (BBCMS) Since 29/7 (sic), RNC Eng & Fr pgms have been heard from f/in 1820 to 2035\* on new 4750, including news in Eng at 1830, Fr 1900. On 4/7 the 1900 nx was #4925 but at 1920 the two channel separated, both in French to rejoin at 1940. From 2000 they again operated independently and 4750 closed at 2035, while 4925 continued (BBCMS 7/7)

BULGARIA Sofia 17825 at 2200 had Ital, not listed Bulg. Listed 9700 for Ital inaudible. On such high freq, maybe for EAF? but 0100 in Somalia (Richard Wood, 9/7) Mixup likeller(gh) (cf July LN-2) The BBCMS reported only 9700 as RM via Bulgaria, 9745/11750 carry 2130-2200 Sofia Eng to Brit prior to 2200 RM pgm; also at 0430 9530 has Eng to Nam and 9745 Span to Cam following 0400-0430 F&P Spanish (Roger Legge, Va)

BRAZIL New on SW is R. Colonial, Tres de Maio, 4380 (WRTH LA News via TDxN) Brasília radio reported 6/6 that R.Em. de Educação Rural, Natal, RGN, and another station had been fined and forbidden to broadcast for five days; and R. Tabajara of Londrina, PR, fined and put off the air for two days because of violating Brazil's broadcasting rules (BBCMS 16/6) Some not Brazilian DX here recently--60m stns normally unheard in winter, in the 0500-1030 period on 5045/5025/5015/4985/4976/4915/4905/4895/4855/4806/4770v/4755 (Geoff Cosler, Victoria, 5/7)

BOLIVIA Name of Rurrenabaque stn on 5020 is Radio 2 de Febrero (Tony Jones, Paraguay, via WRTH LA Nx, via TDxN) R. Frontera, Yaculba, is on 4805 from \*1100, not to be confused with R. La Voz de la Frontera, in Porto Suárez, on 4800 1000-0400 (Tony Jones, via SCDX 5/7)

BANGLADESH RB on 1540lv, 0440 carrier, 0444 sad sounding violin nx IS. ID and comprehensive English nx by alternating sexes, 0457-0503 local songs; weak 6/7 (Pitt McNeil, DC)

AUSTRIA The SW pgms of ORF are received abroad by an audience of about 2 million. They are enjoyed not only by Austrians abroad, but by foreign listeners. Nam skeds available from Austrian Info Service, 31 E 69th St, New York NY 10021 (Austrian Institute, 4/77 via Wood)

AUSTRALIA UnID continuous nx heard on 15200 at 0020-0245 on 4/7, 5/7; very good sigs, no annts, but plays same 2 record sides every half hour. Could be TWR-Guam testing, but more likely RA-Darwin. I have it on VERY good authority that RA Darwin IS on the air broadcasting usual RA pgms, but for some reason they don't want it known (Name withheld by request). If I had to pick an RA freq that sounds like an awful lot more than 10kw listed, 5995 (gh) RA English noted 1000 on new unlisted 9695, ex-unheard 9550? (Richard E Wood)

ARGENTINA On 11/6, B.A. radio quoted a govt annt that the Federal Radio Broadcasting Committee had taken over control of radio and TV pgms in the interior of the country on 1/6, previously exercised by the National Mail and Telegraph Enterprise, ENGOTEL (BBCMS 23/6)

ANGOLA Surprised to hear Luanda 4820 in English at 2305-2312, with local nx; announced as at 12:45 p.m., Mon-Sat, so seems repeat of 1145 GMT (Bob Padula, Victoria, 10/6) RNA was AN in late May, early June on 3375, now back to \*0500. Not // 3375 is Em Nacional, Huambo on 3745, reactivated recently, 0510-0550 fade, irregular (Pitt McNeil, DC, 6/7)

CLANDESTINE CRANNY Luanda radio on 3375/4820/7245 broadcasts at 1730-1800 in English R. Freedom, the Voice of the African National Congress of South Africa, also in a vernacular; and at 1830-1930, SWAPO's Voice of Namibia, in Eng, Afk, vern. Angola is to nationalize remaining private stations (BBC 30/6) V. of the Free Sahara via Algiers and 23/6 a retiming to '11 p.m.' but is still heard at 1900-2000 in Arabic, Spanish, occasionally French (BBCMS 30/6)

GUATEMALA/BELIZE On 24/6 Guatemala on 6180 said from 27/6 it would broadcast Mon-Fri at 1830-1845 a pgm on Belize, "To explain our rights" (BBCMS 30/6)

Voices of the Malayan Revolution, pro-Peking, operates on 15790/11830; 0430 Malay, 0515 Std Ch, 0550 Tamil, 0635-0710 Cantonese/Chaouchu/Kwangsai; 0930-1010 Eng, 1030 Malay, 1115 Hakka/Hainan, 1150-1235 Tamil; 1245 Malay, 1330 Std Ch, 1405 Tamil, 1450-1530 Eng. On 15790/7305; 2200 Malay, 2245 Std Ch, 2320-0005 Tamil (BBCMS 5/77)

Voice of the People of Burma (Burmese: "Myama-pye Pey-Thu Ah-than"; Chinese: "Mien-tien Jen-min Chih Sheng Kuang-po Tien-Tai"), pro-Peking on or very near the Burma-PRC border, operates on 5110 at 0030-0130 and 1200-1300 in Burmese on Su/Tu/Th/Fri; in Std Ch on Sat; in Shan on Wed; in Jingpaw on Mon. On 6304 in Burmese only Su/Tu/Th/Fri currently at 1030-1130 but the timing of this appears to change monthly; it has been obs at 1030-1130, 1330-1430 and 1400-1500 (BECMS 5/77)

FUTURE PLANS WARC-79 Suggested modifications to the band expansions proposed in the FCC Fifth Notice of Inquiry: 1) since 200 kHz is required below 6 MHz, we suggest that not only 5005-5060 be reallocated to international broadcasting but also 5850-5950; every channel 5900-5950 is already used by USSR BC. 2) The extremely crowded 9 MHz band, useful both day and night, should be expanded up to 9850, a region already heavily used by BCers. 3) The 11 MHz band should be expanded further, to include 11500-12025, with the gained spectrum to be shared with fixed. 4) The Group feels there is no need for part of the 25 MHz band to be allocated to amateurs, since they already have 1.7 MHz above 28 MHz where propagation is virtually identical. Cutting the 25 MHz band will put a greater load on the 21 MHz band which should therefore be expanded to 21400-21800 kHz. (Stanley Leinwoll, Chairman, International Broadcasting Services Group)

USA (Of Aug 1976 LN-4) How's the megawatt Russian gospel station in Tennessee coming along? A check with Cliff Hudson on 28/6 revealed little progress; he regards it as a long-term project possibly coming to fruition in 3-4 years; skeleton engineering and financing files are ready to go, but an application to the FCC would not be made any earlier than 9 months from now. Thirty acres of land has been designated for the site, in Walden's Ridge Valley, north of Sall Creek. It would be a 'contemporary Christian' station like Chattanooga's WSMC and WMBW, about 60% Russian, 20% English, 20% other native languages (gh)

John Paxson, VOA Chicago Bureau Chief says they will soon begin using AT&T satellite feeds from the US to Kavalala, and Rhodes; the feeds have already been tested, completed 16/7. VOA was happy with the results, and regular use was to begin within July. VOA will be pushing for at least doubling of current ISWBC bands at the 1979 WARC (John Trautschold, SPEEDXGRAM)

WYFR has bought one new 100 kW xmtr and is currently installing it at Okeechobee FL. Once it is on the air, one Scituate xmtr will be closed down and moved, and so on, one by one, so that at any given time WYFR will continue with 5 xmtres on the air until the move is complete, and 6 will be available. Sites will be announced on the air (Arthur Thompson, WYFR) Lord willing, we should be able to begin broadcasting from Okeechobee with the first xmtr in August or September. The xmtr bidg is almost completed, and the first antennas are being erected. If you are travelling in FL, we cordially invite you to visit these new facilities by driving N about 15 mi on Hwy 441 from Okeechobee to Eagle Island Road, then west on E.I.R. about 7 miles (WYFR Family Radio News, July/Aug/Sept)

(TANZANIA) The Lutheran World Federation has been having talks with world governments for permission to use their radio stations to broadcast the pgms which had been cancelled thru Radio Voice of the Gospel. The LWF General Secretary, told reporters in Dar-es-Salaam that some governments had already granted such facilities, per a 4/6 report on D-a-S radio (BECMS 23/6) I can't imagine Tanzania being one of them... (gh)

SWITZERLAND There's a good chance that SBC will begin experimental SSB broadcasts to ENAM as from spring 1978, with 30 kW PEP. It is being considered very seriously. ENAM is the best target to try because of reception problems and availability of receivers (The Two Bobs on SEC 26/6 and 24/7 via gh)

SOUTH AFRICA Radio RSA's new 500 kW xmtres and antenna installations are reaching completion; two of the new xmtres will take the air on 6/11 with the 177 sked, on 17780/11900/9585. The antennae for Mozambique has been completed and are being used with existing 250 kW xmtres. (Monitoring Panel newsletter No. 80 via John Mainland, NZ)

SALIPAN FEBC's completed studio building will be fire- and typhoon proof. A 240-foot tower for local coverage, already shipped to the site, will be raised near this studio building shortly (FEBC Newsletter, 7/77 via Gerry Bishop, PA) I think this is to be MW-only site, ex-Okinawa, right? (gh)

QATAR QNA reports 25/6 the Amir authorized construction of a new bldg for QBS to cost about 32 million rials; it would have the most modern equipment, finished in 2 years (BECMS 30/6)

PANAMA The National govt may 'at any moment establish SWBC so that its pgms can be heard in other countries'. To this end technical and other studies have been carried out (Panama Sunday paper Dominical, 29/5, via BECMS, commemorating R. Libertad's 6th anniversary) Habana radio reported 21/6 than an info and tech coop agreement would be signed in Panama 22/6 by officials of the radio and TV organizations of Panama and Cuba (BECMS 30/6) OMAN LN-10

NIGERIA The govt has embarked on the first phase of a ten-year, multibillion dollar pgm to relocate the federal capital of Nigeria from Lagos to an 8000 km<sup>2</sup> area about 350 km NE of Lagos near Abuja. International Planning Associates, McLean VA, has been selected to consult. IPA is a consortium of 3 US companies including a division of Summa Corp. (Via McNeill)

NETHERLANDS R. Nederland has announced that all programs would be cut from 80 to 50 minutes starting Monday, 6/11/77 (Dave Hascall, Fortville IN) Four new 500 kW xtrs have been approved for R. Nederland, at a site in Holland, not necessarily Lopik (DX Juke Box 21/7) RN's relay bases will soon be fed by satellite, allowing programs to be more topical than at present, with a 3-4 week lead (Espacio DX-ista 22/7) Including, let us hope, the DX reports(gh)

HAWAII My sister, Miss Jill Smith, who works at Billy Graham's KAIM in Honolulu says their plans to put up a SW station on Maui apparently are off. Instead, they want to increase MW power to 50 kW and beam to the south Pacific: I assume the FCC expects MW stns to serve a domestic audience... (Dave Walcutt, IL) Well, KJNP-1170 broadcasts from Alaska to Sweden, Siberia, so why not? It's silly to apply contentious rules to FCC-licensed stations in outlying jurisdictions (gh) (Cf July LN-8) Where credit is due...the source of the report that a R. Nacional de Hawaii was planned on SW is Wolfgang Gräser, Solingen, W. Germany (gh)

HAITI/ECUADOR HGJB is now aware of the QRM problem with 4VEH on 11835 and is looking for another frequency clear both in North America and Japan (at 1130-1225) (Roger Stubbe, HGJB, 23/6) Since HGJB is returning to 49m in September anyway, they'll have until next summer to find a new 25m channel (gh)

ECUADOR A veri-letter from HOSK-7, R. Federación, says their 3210 outlet will open soon with 10 kW (John Boyd, Springfield IL, via Lou Buehler, St. Charles MO)

DOMINICAN REPUBLIC My cousin Rodolfo Lama Jaar says the R. Barahona outlet listed as HI5V on 4930 kHz on his letter-head is only a frequency authorization, never used so far but may be in future. Does this mean that R. Mil should not be expected back on 4930 any more? (Victor C. Jaar, Charlesbourg PQ)

CARIBBEAN The Queen will make her Jubilee Tour to this area during autumn--Bahamas 19/10, Virgin Islands 20/10, Barbados 1/11. Hopefully a benevolent engineer will commandeer a SW xtr sometime while H.M. is there (Gerry Bishop, PA)

AUSTRIA DPA reports that Austria will introduce summer time in 1978, 2/4 to 30/9 (BECMS)

AUSTRALIA (Cf July LN-9) The RA expansion pgm provides for 22 high powered xtrs, including 7 new ones at Shepparton; a permanent site at North West Cape W.A. with nine aeriels, to replace the temporary Carnarvon stn which is too small for expansion. A\$2.5 million has already been earmarked for two 250 kW xtrs at Shepparton, and the re-construction of the Cox Peninsula station, or an alternative site. If Cox is chosen, five new aeriels will be erected there to replace those blown down by Cyclone Tracey. The three 250 kW xtrs there suffered only minor water damage and do not need replacement (Bob Padula, ADXN 7/77)

AUTOMATIC TUNING The May Wireless World contains an article, "Radio in the 80s", by Duncan MacSwan, Chief Engineer, Radio Broadcasting, BBC. The article deals primarily with future radio receivers which will eliminate the need for listeners to do their own tuning. Instead they will merely have to indicate, by pressing a button, the kind of programming they want and the receiver will find it. Each station will transmit a subcarrier indicating type of programming. In the case of AM stations, the subcarrier will be FM. "Radio Luxembourg uses a simple form of programme labelling by adding coded signals just before and after its news. A frequency within the audio band (2325 Hz) carries FM in the shape of a squarewave, a deviation of 175 Hz is used to open the receiver and 75 Hz to close it. IIT market the 'Oceanic' receiver... with a fixed tuning button for RTL associated with which is another marked 'veille'; with both pressed the receiver 'watches' for news broadcasts only, and bursts into audio life when one is being transmitted. The Dutch are also beginning to experiment with coded programme labelling using a sub carrier well out of the audio and stereo bands." The trouble with this sort of receiver technology, the not mentioned in WW's article, is that it opens the door for a government capability to 'capture' all receivers within its jurisdiction and tune them to a single frequency; a science fiction concept with which the Nixon Administration briefly toyed. (SWNS 7/77)

PROGRAM NEWS ZIMBABWE Among the REC General Service pgms in Eng (sked, LN-1): 0510-0517 Mon, Midlands Report; Tue/Wed/Fri, Focus; Thu, Around the Districts. 0905-0915 Sun, Our Natural Resources. 1127-1200 Sun, The World This Week--reports from RSA, Europe, Britain. 1405-1420 Fri, Ian Smith--the Man. 1500-1515 Mon-Fri, Calling Young Rhodesian; 1800-1845 Wed, Controversy--a topical panel discussion (BECMS 6/77)

USSR Current but undated R. Moscow NAM svk sked (P-PCS during 0330-0400 overlap): Moscow Review daily 2330, 0130, 0330, 0500, 0700. At 2315/0115/0315/0445/0645; Mon, Spotlight on Sports & Greetings from Moscow; Tue & Fri, What Is Communism; Wed, Music at Your Request; Thu, Science & Engineering; Sat & Sun, Moscow Mailbag. At 2245/0015/0215/0345P/0545; Wed, Soviet Way of Life; Thu, DX Programs; Sun 2240/0010/0210/0340P/0540, Thinking Out Loud. Wed 0045/0245/0415/0615, Round About the Soviet Union (via Mac Leonhardt)

USA WINB's only locally originated, live pgm (besides music fill) is Mail Call, Suns at 2230-2245 on 15185, hosted by Bill Greenwald, who otherwise works for the state in Harrisburg, with whom I had a very interesting conversation while I was locked out of my car at neighboring WQCB, where WINB ops must come to search for missing tapes (gh)

**UKOGBANI** BBC World Service programme picks for this month: Documentaries: Wed 1709/Thu 02 30/Fri 1130; Aug 10-11-12, Beside the Seaside--the hey-day of British resorts a century ago; Aug 17-18-19, I Loathe Being Called George--Bernard Shaw's relations with the BBC; Aug 24-25-26, Members of the Orchestra; Aug 31-Sep 1-2, Digging Up the Family Tree, Wed 1430/Thu 0030 & 1830, Aug 10-25, 3 pgs on The Professionals of the Brit armed forces; Aug 31-Sep 1, The 2000 year old village--Foxton. Europa--what it's like to live in Rome, Bonn, London, resp. Sat 0815 & 1115, Sun 0315 & 2115, Aug 13-28. Storehouses of the World continues Suns 1709/Tues 0030 & 1030, with North America--the Arctic; Australia; Under the Sea, Aug 7-23, and on Aug 28, 30, The Lessons of North Sea Oil. Nature Notebook is offering 10-pound prizes for listener's scripts or recordings used on the air--Mons 0745 & 1330; Tues 2315. Music: The Henry Wood Promenade Concerts are broadcast live at 1830 on Aug. 10, 13, 16, 17, 20, 22, 23, 27, 31, Sept 3, 7, 9, etc. More audible in NAM starting Aug. 21 are concerts Suns 1515, Mons 0100. Antony Hopkins Talking About Music, Suns 2130, Tues 0830, 1615. The Composer Abroad, Mons (exc 22nd) 1830, Thurs 0630, Fris 1430. Many new series start in September, or resume--such as Your Verdict, Suns 0330, Mons 1830, Tues 1215; Anguish By Radio, Suns 0545, Tues 0145, Weds 1115. A 12-part serial, of D.H. Lawrence's Sons and Lovers, will air Sats 0230, Mons 1345, Fris 0830. Allstair Cooke's Letter from America changes times to Suns 0430 & 1315, Mons 1730 & 2315. Don't Miss Roger Collinge's preview of Sept highlights Sept. 1 at 1330, 2 at 0330, 1945 (gh)

**MOZAMBIQUE** On the 2nd anniversary of the founding of the People's Republic, 25/6, Maputo radio resumed the "Voice of Frelimo" programs /in Portuguese/, Weds 1830, Suns 1130. It will counter propaganda spread by "The Voice of Klumba" (The Voice of Free Africa)(BBCMG)

**INDONESIA** RRI Banjarmasin has a "Wayang" with several kinds of folk music and dramas on the first and third Saturdays of the month; sked 2200-0100, 0400-1500 on 3250; 0000-0700 on 5970 (Hajime Takamatsu, Japan, SCDX 21/6)

**HUNGARY** R. Budapest will have a Constitution Day special on Aug 20-21 at 1030, 2130, 0200, 0300. Poetry of Hungary is the big theme this month, with two new programs: Affinities and Analogies, Aug 3 at 1030, 1200, 1430, 2130; Aug 4, 0200, 1200; Aug 5, 0300. And, Fate Knocks at the Door, about great lyric poet Endre Ady, Aug 28 0200, 1030, 2130; Aug 29 at 0300, Aug 30, 1030, 1200, 1430, 2130, Aug. 31, 0200 (Budapest International via gh)

**CHINA** If anyone has a tape of the R. Peking anmt of the death of Mao, it would be greatly appreciated if they could contact Mark Seltzer, 68 Allen St. East, Waterloo N2J 1J2, Ont.

**DX PROGRAMS** UK Frank Henning, BEC World Radio Club host, died recently. We'll greatly miss his friendly "Hello, there!", and extend condolences to his family (George Wood, prefacing SCDX 26/7) Beginning in Sept, the 0815 airing of WRC moves from Sun to Wed; the rest remain, i.e. Wed 1330, 2315, Fri 2100 (gh)

**SOUTH AFRICA** R. RSA's DX Corner is aired Weds at 1125, 1635, 2135, 2305; Sats at 1635, 2135 and 2305 (Gerry Wood, its editor)

**ECUADOR** Jeff White is running national anthems taped off the air, on his Wednesday "¿Qué Pasa?" reports on HOJB's DX Party Line. With Clayton Howard's furlough ending, presumably plans are for him to resume hosting all three weekly editions of DXPL. I'd like to see the task continue to be shared by Al Hatch and Roger Stubbs--each has his own approach, and combined, they would appeal to a wider variety of listeners. Each could take one of the three editions, if everyone were agreeable to the idea (gh)

**AUSTRALIA** RA's DXers Calling has begun including some DX tapes on the program, something they have not done for many years, if ever--such as how to tell DW Montserrat apart from Antigua; and, TWR-Guam (gh)

**PUBLICATIONS** International Listener (of July LN-11) I've obtained and verified the home phone and address of Ed Mayberry, 1707 Meadow Brook St., Austin, TX 78745; (512) 474-6543, tho a response of any type is highly unlikely. After phone calls and correspondence he has not even promised an eventual refund. FRENEX readers who invested their money may turn the matter over to the Postal Inspector, Austin, TX; the Attorney General of the State of Texas; and the FTC, the latter particularly for those who ordered IL T-shirts, none of which are known to have ever been shipped. I'd like to hear from anyone who lost money to IL and has made or would like to make an effort to get a refund (Donald E. Erickson, 6059 Essex St., Riverside CA 92504)

International Radio Club of America, MM DX exclusively, has a new address: P.O. Box 26254, San Francisco, CA 94126; publishes "DX Monitor" 34 times a year, samples 50¢ (R. Ségulas)

SW DX Guide (cf July LN-11) The current membership fee to NAM is \$8.00 or 27 IRGs by surface mail; \$19.00 or 64 IRGs by air (Toshimichi Ohtake, Norristown PA; David Duke, El Paso)

Window on the World, the monthly pub of the Woodfield International DX Club (a.k.a. Jeff White, ANARC Convention host) has made a great leap forward in its printing method--from purple ditto to computer printout (gh)

SWL, the ASWLC magazine, has adopted a new easier-to-read format (Dave Brown, ANARC)

Review of International Broadcasting, as subscribers were warned was not published in July due to gh's vacation. Those who have subscribed since or requested samples, please stand by: we will be rolling again during August.

A Qualitative Review of the FRG-7 People keep asking me for my opinion of the receiver I use, so I've finally put together a detailed review. Just send a SASE plus 24, 25 or 26¢ in stamps or coins for copying (if outside NAM, 2 IRCs will do) to gh

Current Trends in Shortwave Broadcasting to North America, by Dr. Richard E. Wood, appears in International Studies Notes, Vol. 4, No. 1, (spring 1977), P. 1-11. Includes a country-by-country evaluation table without frequencies. Price of individual copy not given, but \$1 should cover it, from Int'l Studies Ass'n, Univ. Center for Int'l Studies, Univ. of Pittsburgh, PA 15260 (Wood) If you find errors, don't blame Richard--they didn't give him a chance to proofread, update (gh)

Defence of Peace is a superb cassette sent out by Polish Radio with recordings of wartime BCs from Poland, Britain & Germany (Edwin Southwell & Ron Montague, World DX Club)

Perceptual Confusions Among Letters of the Alphabet--an initial look at call-sign mis-identifications, by Garry Thomas. Some genuine research on a DX problem. IRCA DX Monitor, July 9, pp. 413-414 (gh)

HANDICAPPED AID PROGRAM, dedicated to introducing the SWL hobby to the visually and physically disabled, has an urgent need for multi-band, portable receivers and others for beginning DXers, since the supply on hand has been depleted by a membership drive. DXers who would like to donate a spare or unused rig in working order please write first for shipping instructions, to: Wayne A. Davis, HAF Director, 27 Cleveland Ave., Trenton, NJ 08609 (Davis)

THE WILMINGTON TEN (Cf July LN-12 R. Moscow clipping). The AP article really fouls up the facts. They are 8 local black youth, one white woman, and one black activist sent by our denomination when the local Wilmington NC pastor asked for help during racial violence. Rev. Ben Chairs tried to calm tensions and open dialogue between police and blacks. A grocery was burned and the "10" were accused and convicted. The three main prosecution witnesses have now all admitted they were bribed. The pastor who had the "10" in his home while the grocery burned gutlessly never testified. Sectors of the United Church of Christ have spent great resources hoping justice will be brought for the "10". The woman is now out on probation (Rev. Tom Blossom, Austinburg OH)

## DX CALENDAR

### August

- 15 S Korea, National Day
  - 17 Indonesia, Independence Day
  - Gabon, Independence Day
  - 20 Brazil, R. Cult Bahia, 26
  - Colombia, R. Bucaramanga, 43
  - 23 Romania, Liberation Day
- (Ceas van der Zain, BDC) Thus ends our year-long series. Don't forget Ramadan, longer hours on Islamic stns, 16/8-14/9.

## LATE ITEMS

MALTA Xandir Malta says "Malta Calling" Sun 2045-2115 on new 5290 (Patrick SCDX)

KOREA NORTH R. Pyongyang on new 11780v to Ams in Eng at 1000-1052\* (Cress, Padula, McNeil, TDKN 20/7)

SOUTH AFRICA SABC's Radio Five was to add SW to MW on 1/8: 0300-0530, 1530-2200 on 3388; 0530-1530 on 6010. Due to MBC 3380 and RBC 3396, 3388 may have to be replaced (Gerry Wood)

## THANK YOU

for nominating and choosing me ANARC's NAM DX'er of the Year! I am honored (gh)

## BBC overseas service

### Come back

Millions of radio listeners round the Indian Ocean from Mogadishu to Colombo have lost their major source of news. On June 13th a hurricane blew down the aerials of the relay station on the island of Masira, cutting off all medium-wave transmissions of the BBC to the area indicated on the map. The foreign office, which owns the station and, following government policy, had not insured it, first promised to replace it and then began to hedge. This week, in a reply to a parliamentary question, it put the cost of the repairs at £2.2m but gave no assurances that it was not still straining at this gnat.

The BBC has not abandoned this important audience altogether. Short-wave transmissions are still going out from a station in Malaysia. But listener surveys have shown that medium-wave is greatly preferred in the area and that more than half the listeners tuned in on medium wave. The Malaysian station is anyway due to be phased out by March. Some of its services will be shifted to Singapore but the short-wave broadcasts to the subcontinent were intended to go out, along with medium wave, from Masira. Unless reconstruction work begins on Masira within a month or two, or Malaysia grants a reprieve, the cut-off will soon be total.

### Where the BBC went off the air



Estimates of the BBC's overseas audiences are necessarily inexact, particularly in remote areas. But one BBC poll found 70% of the respondents in the Gulf to be regular listeners to the Arabic service; the programme guide published by the Arabic service has a bigger circulation than any other Arabic periodical in Britain or the Middle East.

In both India and Pakistan, the BBC has been the main source of uncensored news during the recent emergencies. An estimated 28% of the adult population of Pakistan listened to the Urdu service before the present crisis; that figure could be as high as 80% today. Correspondents have reported Pakistanis rushing to radio repair shops to try to restore the BBC after the Masira breakdown. One story has it that the fanatical followers of the Pir of Pigar agreed to call off a bitter battle with the police only when they had heard on the BBC that their leader had been released.

This kind of credibility is not bought easily. It is certainly worth £2.2m. (Economist, July 16-22, via Syd Osterman, Ont.)

# naswa AWARDS reports

Dan Henderson, Chairman  
317 Brock Bridge Road  
Laurel, Maryland 20810

August, 1977

The following report gives all awards issued during the period 1 April 1977 through 30 June 1977. All awards are listed in chronological order of issue.

## EUROPEAN CONTINENTAL DXER

Charles E. Tucker  
Michael S. Hardester  
Tom J. Potiak  
H. W. Delmage  
Neal Weaser  
Graeme Roy Brown

John C. Herkimer--50 Kw  
Tom Overcamp--25 Kw

## SENIOR MEMBER DXER

John C. Herkimer

## SENIOR SPURER DXER

Joe Deleo  
Ira Trifilidis  
John C. Herkimer

## SENIOR AMERICAN CONTINENTAL DXER

Robert C. Miles

## SENIOR ECCELESIASTIC DXER

Gerry Dexter

Martin Feitz  
Tom Overcamp

## MASTER DXER

Ira Trifilidis

## DXER DE PASADENA

Michael S. Hardester

## VCA DXER

Randolph Macris

## ASIAN CONTINENTAL DXER

Joe Deleo

## ARAB WORLD DXER

Joe Deleo

## WORLD WIDE DXER

Charles E. Tucker  
Michael S. Hardester  
James T. McClure  
Roger N. Peterson  
Robert Ward  
M. W. Delmage  
Neal Weaser  
Robert McIntosh  
James B. Wilson, Jr.  
Craig W. Child

That takes care of the second 3 months of 1977. There seemed to be a dropping off of the awards applications, although I really do not know just why. Five new awards were announced in the July bulletin and some applications have already been received for them. Mr. Gerry Dexter has qualified for the Senior Ecclesiastic DXer award as No. 1, and Mr. Al Sizer reached the two hundred countries verified this quarter--the 5th Master DX Centurion has been issued to him.

## DX CENTURION

Michael S. Hardester  
Roger DeRoy  
Tom Overcamp

I want to re-emphasize the fact that--UNLESS YOUR NAME AND ADDRESS IS ON EACH AWARDS APPLICATION SHEET, I WILL NOT PROCESS IT. This quarter, I received 2 or 3 applications that did not have the names and addresses on the sheets and it took a lot of time to determine just whose application they were. So please, put your name and address on the sheets. 73, DanH.

## MASTER DX CENTURION

Alvin Sizer (No. 5)

## ALL CONTINENT QRP

Richard T. Pistek--10 Kw

# QSL REPORT



BILL OLIVER, EDITOR  
45 Wildflower Road  
Levittown, PA 19057

AUGUST 1977

James Young, Wrightwood, CA has received a QSL from TWR, Guam with a letter congratulating him for being first to verify this new station. Rita Verneti, Marshall Is. reports being in the first ten with her QSL. I'd like to add my congratulations, too. Nice work! Now if some one would come up with the first verification from Surinam....Oh well. Here's some others....

AFGHANISTAN: R. Afghanistan, 4000, f/d map cd in 12 weeks for EE rpt, pcd and 1 IRC. (Brown-BC).

ALBANIA: R. Peking Relay, 9780, cd, pin, sked, ltr in 16 days for 1 IRC. (Rockwood-OH); cd w/c time, sked and long ltr on Mao in 22 days. No rp. (Scott-ONT); cd in 16 days w/other literature. No rp. (George-TX): 7120, "Red Flag Canal" cd w/c time, pennant, sked, maps, glossy print, ltr and beautiful calendar in 28 days. No rp. (Prima-IL).

ANTIGUA: BBC Relay, 6175, cd in 3 months. (Marshall-NC): 6195, cd in 64 days. No rp. (Petrov-ONT).

DW Relay, 5960, no-data cd in 115 days, 73 days from Cologne by sea. (Delmage-MAN): 9545, no-data cd in 124 days. No rp. (Scott-ONT).

ARGENTINA: RAE, 9690, cd w/freq and meter band only and pennant in 147 days for 1 IRC. (Willis-KY); same w/SS sked in 6 1/2 months. No rp. (Brooker-ONT): 9690/11710, same w/pennant in 533 days for 2 IRC's. (Wright-TN).

ARMENIAN SSR: R. Yerevan, 15100, f/d plain white cd in 1 year, 102 days for EE rpt and 2 IRC's. (Kusalik-ONT).

R. Moscow via Yerevan, 17700, f/d cd in 30 days for EE rpt on EE xmsn to Africa. No rp. (Cannon-NC).

ASCENSION IS: VOA Relay, 15195, f/d cd for EE or FF xmsn to SA. No rp. (Cannon-NC).

ASIATIC RSFER: R. Moscow via Kenga, 9605, f/d cd in 37 days. No rp.

(Hermann-ONT). Via Khabarovsk, 12050, cd in 61 days. (Wolfish-ONT). Via Yuzhno-Sakhalinsk, 11860, cd in 5 weeks. (Sparks-CA). Via Sverdlovsk, 7185, cd in 4 months. No rp. Original was returned for site. (Cannon-NC).

AUSTRALIA: R. Australia, 9580, cd in 5 months. No rp. (Gercken-IL); in 6 months. No rp. (Muick-PA); in 210 days. No rp. (Meehan-CT): 15320, in 23 days w/pennant, sked, calendar for 1 IRC and mint stamps. (Neff-IL); in 22 days for 2 IRC's. (Alexander-PA): 15290, in 16 days for 3 IRC's. (Noon-IL).

VLW15-Ferth, 15425, cd in 30 days for 3 IRC's. (Poppin-CA).

AUSTRIA: ORF, 9770, f/d "Landscape" cd, sked, rpt forms and sticker in 35 days for 1 IRC. f/d "Lovers" cd in 29 days for 1 IRC. (Scott-ONT).

AZERBAIJAN SSR: R. Baku, 4785, cd in 3 months for RR Svc. (Barto-CT); f/d cd in 4 1/2 months by registered mail. No rp. (Schulman-NY).

BELGIUM: BRTV, 9725, f/d blue/white map cd, sked, pennant, pcds, "Mailbag" transcript in 22 days for 2 IRC's. (Zajda-MA); in 25 days for 1 IRC. (George-TX): 9730, in 25 days. No rp. (Ebert-WI); in 32 days, 1 IRC. (Fraser-MA).

BENIN: ORTB, 4870, cd in 4 months, 1 IRC. (Legge-VA); in 1 month for FF rpt, 1 IRC. (Brooker-ONT); in 38 days for FF rpt. No rp. (Gionet-NB); in 45 days for FF rpt, 1 IRC. (Willis-KY); in 6 1/2 months for EE/FF rpt, 2 IRC's. CIV #100! (DeRoy-KE): 7190, in 10 months for FF rpt, 3 IRC's. (Rude-CA); in 6 weeks after 2nd f/up, 9 months total. (Cosier-AUST).

BOLIVIA: La Cruz del Sur, 4875, "Mountains/Llama/Antenna" cd w/freq in 8 months for 2 IRC's and a color print of Wheeling. (Wiles-WV); same cd in 8 1/2 months for mint stamps. (Bishop-PA); no-data cd for either my rpt of Oct 3, 1976 on EE prgm or Dec 30, 1976 on SS prgm. I would like to think this is a "no-data" QSL, but it doesn't in any way verify anything! (Gionet-NB).

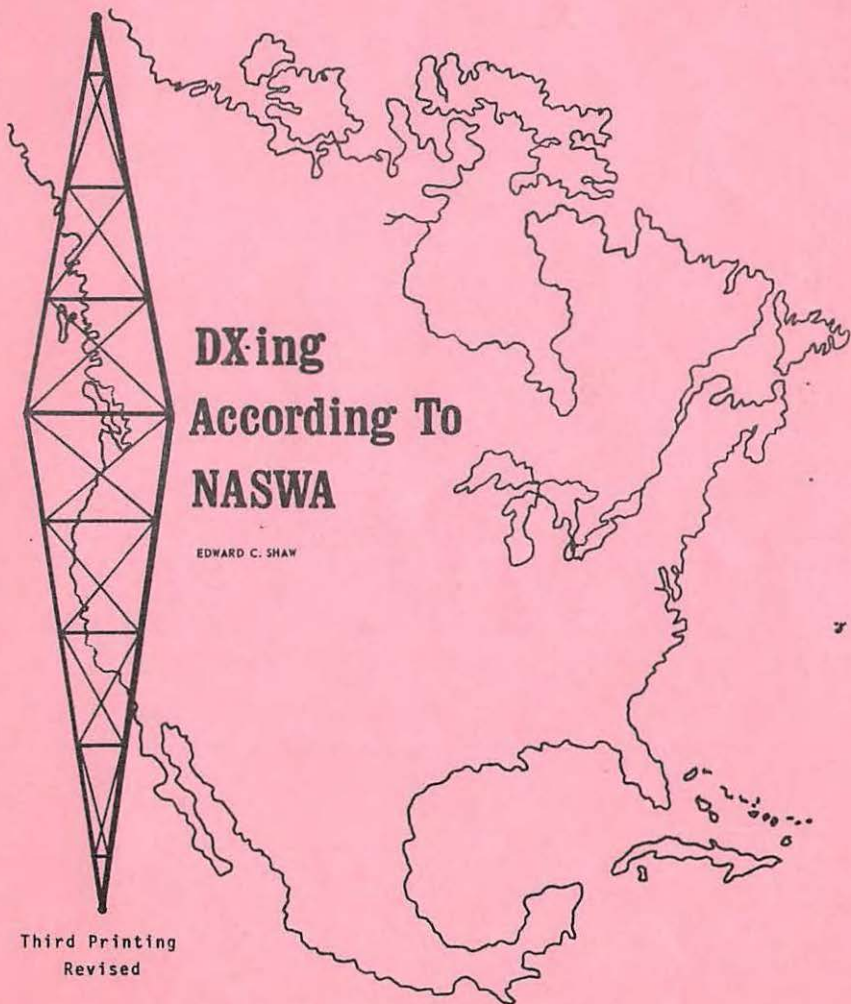
BRAZIL: R. Nacional, 15245, f/d cd, decal and note on discontinuation of International Svc in 25 days for 1 IRC. (Howard-CA); in 26 days for 1 IRC. (Streveler-HI); in 3 weeks. No rp. (Bishop-PA); in 22 days for 3 IRC's. (George-TX).

Emissora Rural, 4945, cd in 2 months for 1 IRC. (Legge-VA).

R. Aparecida, 9635, f/d cd in 202 days for FF rpt. No rp. V/s Olivio Martins de Castro. (Mikell-IL).

# North American Shortwave Association

PRESENTS



## DX'ing According To NASWA

EDWARD C. SHAW

Third Printing  
Revised

NORTH AMERICAN SHORT WAVE ASSOCIATION  
POST OFFICE BOX 13  
LIBERTY, INDIANA 47353 U.S.A.

# DXING ACCORDING TO NASWA

by

EDWARD C. SHAW

## CONTENTS

Foreword	
CHAPTER I	BROADCASTING HISTORY
	* The First Years Page 2
	* The Future of SWBCing Page 4
CHAPTER II	DX HOBBY EQUIPMENT
	* The Receiver Page 6
	The Four "S" Guide Pricing Guide Reviews of Popular Models
	* Antennas Page 22
	Basic Theory Erecting Antennas Popular Designs
	* Accessories Page 29
	* Maintenance Page 33
	Hints Tools To Use
CHAPTER III	USEFUL TEXTS Page 38
	* Commercial Sources
	Books Magazines
	* Hobby Club Publications
CHAPTER IV	PROPAGATION AND TIME Page 40
	* The Ionosphere
	Layered Reflection Regions
	* WWV Radio Service
	Solar Flux & A-Index
	* The Great Circle Page 45

CHAPTER V	REAL-TIME DXING	Page 46
	<ul style="list-style-type: none"> <li>* How To Pick A Band</li> <li>* Geographic Shifts</li> <li>* Those Funny Noises We Hear</li> <li>* Identifying What You Hear</li> <li>* Keeping Logs Of What You Hear</li> <li>* Tape Recording</li> <li>* A Few Handy Hints</li> </ul>	
CHAPTER VI	THE RECEPTION REPORT	Page 63
	<ul style="list-style-type: none"> <li>* Why Report Anyway?</li> <li>* How To Write A Report</li> <li>* Understanding Your S-Meter</li> <li>* Foreign Language Reporting</li> <li>* Postal Matters</li> <li>* Where Do I Sent Reports?</li> <li>* All About QSLs</li> </ul>	
CHAPTER VII	KEEPING ACTIVE	Page 76
	<ul style="list-style-type: none"> <li>* Writing Articles</li> <li>* Other Clubs</li> <li>* Fun Things To Do</li> </ul>	
GLOSSARY OF TERMS AND ABBREVIATIONS		Page 80
WHAT DO COMPONENTS LOOK LIKE?		Page 81
THE NASWA AWARDS PROGRAM		Page 82
WORLD MAPS		Page 84
DARKNESS PATTERN CHARTS		Page 96
SAMPLE RECEPTION REPORT LETTER		Page 109
A LIST OF HOBBY CATERERS		Page 110
A LIST OF ANARC ASSOCIATE CLUBS		Page 111
GREAT CIRCLE CHARTS		Page 112
AN ANTENNA TUNER YOU CAN BUILD		Page 114
WORLD TIME ZONE CHART		Page 115
NASWA COUNTRY LIST		Page 117

# NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION POST OFFICE BOX 13 LIBERTY, INDIANA 47353 U.S.A.

The project of revising and publishing "DXing According to NASWA" (third edition) has been completed and the finished product is now available to NASWA members.

Since the first edition was first offered in 1975, many new products are now on the market. This latest edition of DXATN puts emphasis on the latest equipment available at the time the book went to press.

For example, almost twenty pages with photos and text are devoted to information on receivers along with approximate prices one might expect to pay, either new or used. Anyone considering a new or used receiver would find this section to be most helpful.

The book, off-set printed, 5½" X 8½", 136 pages is very reasonably priced and should be within the budget of most everyone. The price is \$4.00 postage and handling included, mailed anywhere in North America, or \$6.00 worldwide by airmail.

Even though many may already have a copy of one of the earlier editions, there is enough new material included to make this third edition a worthwhile addition.

\* \* \* \* \*

## ORDER FORM

DXing According to NASWA  
P.O. Box 13  
Liberty, Indiana 47353

Send to:

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Make checks and money orders payable to DXing According to NASWA and in U.S. funds only.

R. Inconfidencia, 6000, personal PP ltr thanking me for taped rpt. He talks of xmtr problems and would like to correspond. Anyone out there understand PP? I could use some help. Took 28 days and 1 IRC. (Delmage-MAN).

R. Guaba, 5965, cd, stickers, sked, ltr in 2 months. V/s Paulo Deniz. (Barto-CT).

BULGARIA: R. Sofia, 9700, f/d cd. sked, ltr, 3 rpt cds in 64 days. No rp. (Scott-ONT): 7115, "Sofia U" cd, ltr, sked in 52 days. No rp. (Primm-IL).

BURMA: Burma Broadcasting Svc, 4725, f/d cd in 70 days for EE rpt, 2 IRC's and used stamps. (Kusalik-ONT). Very nice, Ed!

BYELORUSSIAN SSR: R. Moscow via Orsha, 7100, cd in 61 days. (Wolfish-ONT).

from  
SAM  
FANTO



## RÁDIO BANDEIRANTES

SÃO PAULO - BRASIL

CANADA: CPOX-Montreal, 6005, cd w/o time in 39 days for 1 IRC. (Zajda-MA).

CHNX-Halifax, 6130, plain white cd w/o time and fact sheet in 14 days for 1 IRC. (Zajda-MA); in 8 days. No rp. (Lobdell-MA).

CPRX-Toronto, 6070, "Carnival" cd w/o time in 34 days for 1 IRC. (Zajda-MA); 11 days. No rp. (Primm-IL); 20 days. No rp. (Lobdell-MA).

CHU, 3330, "Sir Sanford Fleming" cd w/o time/date in 28 days for mint stamps which were returned. (Neff-IL): 7335, same cd in 13 days. No rp. (Primm-IL).

CANARY IS: RNE Relay, 11880, cd, sked and rpt forms in 19 days for 1 IRC. (Shotola-IL).

CHAD: Rdiff. Nationale Tchadienne, 4904.5, f/d cd in 31 days for 1 IRC. (Shotola-IL).

CHINA: R. Peking, 11660, "Forest" cd w/o time and sked in 17 days. No rp. (Wiseblood-CA): 15060, "Palace" cd w/o time, sked and promise of "Peking Review" in 21 days. No rp. (Hamilton-SC): 7620, "Bridge" cd, sked and pin in 22 days. No rp. (Myers-AZ).

COLOMBIA: R. Reloj del Quindio, 3100 (2 x 1550), ltr and pcd in 3 months. (Barto-CT).

R. Super de Cali, 6120, f/d personal QSL ltr in 1 1/2 years after 9 f/ups for SS rpt and mint stamps. V/s is Fernando Segura who was director of La Voz del Huila 3 years ago and who sent me a QSL from that station in February, 1974. (Lazarus-LA).

La Voz del Llano, 6115, f/d aerogramme QSL, sticker in 32 days for SS rpt and 1 IRC. (Shotola-IL).

R. Sutatenza, 5075, f/d "Station Info" cd in 6 months for SS rpt and 1 IRC. They will accept EE rpt. (Rude-CA).

Ecos del Combelma, 4875, f/d form ltr in 28 days for cassette rpt and mint stamps. Also received a personal hand-printed ltr in SS, photo of the signer, Alfonso Tovar, and 2 bills of Colombian money. I'm getting rich! (Delmage-MAN).

R. Nacional, 15335, date-only cd in 82 days for SS rpt and mint stamps. (Mikell-IL).

CONGO: RTV Congolaise, 15190, f/d FF form ltr in 72 days. No rp. (Petrov-ONT): 4765, same in 53 days for FF rpt. No rp. (Rude-CA).

COOK IS: R. Cook Is, 3265, f/d cd w/QRP as 500 Watts in 6 weeks for an Aussie dollar sent with rpt!. Cd shows man listening to a seashell. (Cosier-AUST). You can get R. Australia on almost any type of receiver!

- CUBA:** RHC, 17885, f/d cd, 8 pocket calendars and booklet, but no pennant in 74 days. No rp. (Scott-ONT): 9685, cd, ltr, sked and "15th Anniversary Booklet" in 72 days for 1 IRC and pcd. (Miller-WV).
- CYPRUS:** CBC (via BBC), 7265, f/d "National Costume" cd in 34 days. No rp. (Cosier-AUST).
- BBC Relay, 7140, no-data "Bridge" cd and sked in 44 days. No rp. (Alexander-PA).
- CZECHOSLOVAKIA:** R. Prague, 5930, f/d "Castle" cd in 80 days for Gilfer rpt form. Ltr, sked came earlier. (Ventura-IL): 7345, f/d "Tatra Mts" cd, sked, DX Club info, picture of Prague in 1493 and nice ltr in 90 days for 2 IRC's. (Sciaccia-CA); f/d cd, FDC's in 83 days for 1 IRC. (Rockwood-OH): 11990, f/d "Castle" cd in 3 months for 1 IRC. (Ebert-WI).
- DENMARK:** R. Denmark, 15165, f/d "Radiohouse Tower" cd in 18 days for rpt on Danish xmsn. No rp. (Valko-PA); same in 16 days. No rp. (George-TX).
- DOMINICAN REP:** R. Clarin, 11700, verie ltr w/station info but no time or freq in 110 days. No rp. (Alintuck-MA).
- ECUADOR:** La Voz del Napo, 3280, pcd, ltr in 3½ months. V/s Patricio Orbea R. (Barto-CT). Henry Lazarus reports another QSL from this v/s for an old rpt! R. Quito, 4920, EE/FF/SS/PP "Thank You" cd in 3 months. No rp. Does this count? (Muick-PA). Sure. That's all that anyone gets.
- Emisoras Gran Colombia, 4910, no-data SS ltr and pennant in 8 weeks for SS rpt, pcd and mint stamps. (Brown-BC).
- R. Zaracay, 3390, SS verie ltr, black/white pennant in 6 weeks for SS rpt, pcd and 1 IRC. (Cosier-AUST).
- HCJB, 9560, f/d "Moore/Standby Generator" cd, sked, religious info in 22 days for mint stamps. (Fraser-MA); "100 KW Team" cd, sked, questionnaire in 31 days for pcd, 1 IRC. (Miller-WV): 11915, f/d "49-meter Unit" cd in 21 days for 3 IRC's. Also received religious info. (Moon-IL). Didn't we all?
- EGYPT:** R. Cairo, 9475, cd, sked, pcd in 1 month for 1 IRC and pcd. (Miller-WV); f/d cd and sked in 31 days for 1 IRC. (McGonnell-MA): 9805, f/d cd in 38 days w/sked. No rp. (Primm-IL).
- ENGLAND:** BBC, 9915, cd, sked in 92 days for 1 IRC, pcd. (Miller-WV). VOA-Woolfferton, 7325, f/d cd in 40 days. No rp. (Hoffman-PA).
- ESTONIAN SSR:** R. Tallinn, 6085, f/d cd in 32 days. No rp. (Cosier-AUST).
- EUROPEAN RSFSR:** R. Moscow, 7100, cd, sked, ltr in 1 month for 1 IRC, pcd. My first SW QSL! (Miller-WV): 7110, cd, sked in 30 days for 2 IRC's. (Sciaccia-CA): 9680, f/d cd, rpt form in 34 days. No rp. (Fraser-MA). **XMTT** SITES: R. Moscow via Moscow, 5970/7360/9680/9500. Via Armavir, 9520. Via Zhigulevsk, 11890. Via Kazan, 6175/11805. Via Tula, 7250/15490/9735. Cds in up to 6 weeks. (Gionet-NB, Barto-CT, Alexander-PA, Bishop-PA, Kusalik-ONT, Sparks-CA, Cannon-NC, Hermann-ONT).
- R. Rodina, 9600, f/d cd w/o site in 37 days for EE rpt on RR xmsn. No rp. (Hermann-ONT).
- FINLAND:** R. Finland, 15110, f/d cd, "Hear Finland mag in 55 days for 1 IRC. (Alintuck-MA); cd, sked in 65 days. No rp. (Swanson-IA).
- FRANCE:** RFI, 11935, f/d "Chateau Chambord" cd, sked in 62 days. No rp. (Ebert-WI): 17720, same w/plastic pennant in 32 days, 1 IRC. (Wiseblood-CA).
- GALAPAGOS IS:** La Voz de los Galapagos, 4810, no-data cd in 16 months for SS rpt. (Rude-CA); "Green Tortoise" cd w/o date or time in 5 months. No rp. (Schulman-NY).
- GEORGIAN SSR:** R. Moscow via Tbilisi, 9695, cd in 1 month for rpt on African Svc. (Barto-CT): 11905, f/d cd in 43 days for SS rpt on LA Svc. (Mayer-IL).
- GERMANY (E):** RRI, 9730, "Clock Tower" cd, posters, "RRI Journal", pcds and "The GDR in Profile" book in 40 days for 2 IRC's and 2 photos. My first 2 rpts were lost and they never received my tape rpt of 6 months ago! VIC #18! (Wiles-WV); "DDR Rotes Rathaus" cd and other literature in 3 weeks. No rp. (Streveler-HI); same in 36 days. No rp. (Alintuck-MA).
- GERMANY (W):** Deutsche Welle, 6040, no-data cd and "Hallo Friends" mag in 61 days for 2 IRC's. (Sciaccia-CA).
- R. Liberty, 6000-Holzkirchen, f/d cd w/site in 5 weeks. No rp. (Cosier-AUST).
- Deutschlandfunk, 7130/9610 via DW, f/d "Highway" cd, sticker, pcd in 3½ weeks. No rp. (Cosier-AUST).
- VOA-Munich, 3980, f/d cd in 7 days. No rp. (Cannon-NC).
- GHANA:** GBC, 4915, f/d cd stapled to sked in only 323 days for EE rpt and 1 IRC. (Willis-KY).
- GREECE:** V. of Greece, 9760, f/d cd in 20 days for 1 IRC. (Shotola-IL); in 45 days. No rp. (Brooker-ONT): 9530, in 27 days for 1 IRC. (Fraser-MA).
- VOA-Kavala, 7270, f/d cd in 6 days. No rp. (Cannon-NC).
- GREENLAND:** Gronlands Radio, 3999, cd in 8½ weeks. (Barto-CT).

GUAM: TWR, 11705, f/d cd for rpt on test xmsns, June 11, 1977 at 0603 GMT, in 8 days for SASE. V/s V. Rodger Groff also sent an original color photo of antenna with statement, "Our first reception report!". (Young-CA): 9505, cd, photo of site and ltr in 13 days. No rp. I was among the first ten people to write to them. (Verneti-MARSHALL IS).

To: Rita M. Verneti

June 22, 1977

This card verifies that you have been listening to a transmission from Trans World Radio, as indicated by the following details:

Date	June 13, 1977	Transmitter located at:	
Time	0943-0915		Agaña, Guam, 96910
on	9505	KHz	Power 100 kw
	25	meters	

Thank you for your reception report. We hope you will continue listening to the programs of TWR and we look forward to hearing from you again.

44

GUATEMALA: TGNA, 3300, f/d cd, country info in 27 days for 1 IRC. (Wright-TN); "Juetzal" cd w/o time, sked, religious pamphlet and tourist info in 43 days. No rp. (Brooker-ONT).

GUINEA-BISSAU: R. Nacional, 4780, f/d green cd w/freq listed as "5041" in 4 weeks for 2B rpt, pcd and 2 IRC's sent registered mail. (Brown-BC): 5041, f/d cd in 34 days for 1 IRC. (Shotola-IL); cd w/o time in 2 months for 2nd PP f/up rpt. A total of 10 months to get this one. (Cosier-AUST).

HAITI: 4VEH, 9770, f/d "Studio" cd, sked and ltr in 5 months for 1 IRC. (Troster-ONT): 11835, same in 135 days for 1 IRC. (Alintuck-MA).

HONDURAS: HRVC, 4820, f/d cd w/power in 20 days for 1 IRC. (Alintuck-MA).

HUNGARY: R. Budapest, 15285, cd in 26 days for pcd and 1 IRC. (Miller-WV): 7215, f/d cd in 65 days. No rp. (Hermann-ONT): 7215/6000, two different f/d blue "Church" cds in 3 months and 5 weeks. (Wolfish-ONT).

ICELAND: Reykjavik Radio, 12175, f/d "Scenic" cd in 1 month for 2 IRC's. (Troster-ONT); in 71 days for 1 IRC. (Wolfish-ONT); in 66 days. No rp. (Schulman-NY); in 6 weeks for 2 IRC's. My best European! (Cosier-AUST).

INDIA: AIR, 11810, date-only cd in 61 days. No rp. Rpt was sent registered mail. 1 1/2 years effort finally paid off! (Foppin-CA); same in 33 days. No rp. (Wright-TN): 9525, f/d cd in 39 days for 1 IRC. My 3rd rpt finally answered! (Wolfish-ONT); f/d cd in 295 days. No rp. 1'd given up! (Meehan-CT): 11620, two cds for same rpt in 13 months. No rp. (Bishop-PA). Never give up!

INDONESIA: V. of Indonesia, 11790, folder cd w/o time in 69 days. No rp. (Grenier-CA); same in 75 days for 1 IRC. My first Indo! (Sapoznikow-MAN).

RRI Surabaya, 3975, f/d cd in 5 weeks for Indo rpt, 1 IRC and pcd. (Brown-BC).

RRI Gorontalo, 4900, Indo verie ltr in 4 weeks for Indo rpt. No rp. (Cosier-AUST).

RRI D Lombok Timur, 2854, verie ltr in 3 weeks for Indo rpt. No rp. (Cosier-AUST).

RRI Tanjung Karang, 3995/3395, verie ltr in 40 days for Indo/EE rpt and mint stamps. (Kusalik-ONT).

RRI Bengkulu, 3265, Indo ltr in 1 month after f/up for Indo rpt and mint stamps. (Sparks-CA).

RRI Kupang, 3550, Indo verie ltr in 1 month after f/up for Indo rpt and mint stamps. V/s J.R.P. Montong BA. (Sparks-CA).

RRI Ternate, 3345, Indo ltr in 3 weeks for Indo rpt and mint stamps. V/s My. Maimunah T. Abdurachman. (Sparks-CA).

IRAN: NIRT, 9022, f/d "Rezaiyeh TV" cd and plastic pennant in 5 weeks. No rp. (Lobdell-MA): 15084, same in 32 days. (Wolfish-ONT).

IRAQ: R. Baghdad, 9745, f/d cd in 18 weeks w/sked and booklet on Zionism! (Cosier-AUST).

ISRAEL: IBA, 7412, "Jerusalem" cd, sked, rpt forms in 40 days. No rp. (Brooker-ONT): 9815, same in 45 days. No rp. (Meehan-CT): 11655, same in 37 days. No rp. (Mayer-IL): 15100, same in 1 month. No rp. (Lobdell-MA): 7420,

same in 38 days. No rp. (Cohen-NJ).

ITALY: RAI, 6010, f/d cd and sked in 5 months. No rp. (Wright-TN).

Gamma Radio-Milano, 6220, cd in about 1 year with the help of Dario Monferini. V/s C. Riefeser, Secretaria. (Barto-CT).

JAPAN: R. Japan, 15105, cd in 15 days w/other goodies. No rp. (Berezowski

-ALB); in 23 days. No rp. (Alexander-PA): 9505, in 11 days. No rp. (Hoffman

-PA): 9585, in 21 days. No rp. (Sciaccia-CA): 17825, in 13 days. No rp.

(Wiseblood-CA): 17880, in 14 days. No rp. (Hamilton-SC): 15195/15105, in 12

days. No rp. (Howard-CA).

JY, 15000/10000, f/d "Costume" cds in 1 year. No rp. This after 3 years and 23 rpts!!! (Muick-PA). Now that's dedication!

JORDAN: HRBS, 9560, f/d "River Jordan" cd, sked and info in 75 days. No rp.

This was sent to the wrong address! Luckily, I got it! (Schulman-NY).

KENYA: V. of Kenya, 4915, f/d aerogramme QSL w/note thanking me for the

photo of my listening post which I sent. Received in 25 days for EE rpt on

Swahili xmsn and mint stamps. (Herkimer-NY): 4915/4804, same f/d QSL in 35

days for EE rpts and 2 IRC's. (Kusalik-ONT).

KIRGHIZ SSR: R. Moscow via Frunze, 11820, f/d cd in 2 months for rpt on S.

Asian Svc. (Legge-VA); same in 5 weeks. (Sparks-CA).

KOREA (N): R. Pyongyang, 7203, f/d cd, pennant, pin, booklet on the Korean

War with vintage variety cold war propaganda slogans and a Japanese IRC.

All in 87 days. No rp. (Sapoznikow-MAN).

KOREA (S): KBS, 9640, f/d "Statue" cd in 24 days. No rp. (Lister-BC).

KUWAIT: R. Kuwait, 12085, f/d folder QSL in 36 days. No rp. (Troster-ONT);

same in 60 days for 1 IRC. (McGonnell-MA): 9580, same in 47 days. No rp.

(Alintuck-MA).

LATVIAN SSR: R. Riga, 5935, f/d "Couple in Costume" cd and book on Latvian

life in 3 1/2 months for rpt on Swedish xmsn, 2 IRC's and a color print. (Wiles

-WV); same in 1 year, 109 days after 2nd f/up for EE rpt and 2 IRC's.

(Kusalik-ONT); same in 4 months for EE rpt and 1 IRC. (Herkimer-NY). Nice!

LIBERIA: ELWA, 11945, f/d cd, sked, religious info in 54 days for 3 IRC's.

(Wright-TN).

VOA-Monrovia, 3990, f/d cd, sked and sticker in 2 months. Power =

8 KW. (Brown-BC).

LIBYA: Peoples' Revolution Broadcasting, 6185, personal EE ltr in 80 days

from Belgasum O. Buzed for EE rpt and mint stamps. (Herkimer-NY).

LITHUANIAN SSR: R. Vilnius, 9720/7215, f/d cds in 87 and 48 days, both

arriving the same day. No rp. (Hermann-ONT).

LUXEMBOURG: R. Luxembourg, 6090, f/d cd in 140 days. No rp. (Valko-PA).

MALAGASY REP: R. Nederland Relay, 11730, f/d "Harry van Gelder" cd in 39

days. No rp. Also received a calendar and pcd from "Elke". (Mayer-IL).

MALAWI: MBC, 3380, f/d form ltr in 2 1/2 months. No rp. (Bishop-PA); same QSL

in 68 days for EE rpt on Chichewa xmsn and 1 IRC. This was my 2nd try.

(Willis-KY); ltr in 4 months for 1 IRC. (Legge-VA); same in 151 days for EE

rpt only. No rp this time! Three previous rpts with nine IRC's were ignored!

(Gionet-NB). The well dried up again, Onil.

MALAYSIA: BBC Relay, 11995, no-data cd in 41 days. (Shotola-IL).

MALTA: IBRA, 9670, f/d cd, sked, ltr and religious booklet in 98 days for 1

IRC. (Scott-ONT).

Voa Fidei, 6170, f/d cd picturing Dore's painting of Adam and Eve

being driven from the Garden of Eden. Received in 100 days. No rp. A really

nice card. (Gionet-NB).

MAURITANA: Rdiff. Nationale, 4845, f/d map cd in 82 days for FF rpt and 1

IRC. (Hermann-ONT).

MONACO: TWR, 7105, f/d map cd showing all TWR xmtr sites including Guam in

18 days for 1 IRC. (Willis-KY); same in 68 days for pcd and used stamps.

Also received MW/SW sked. (Troster-ONT).

MOROCCO: VOA-Tangier, 9760, site/date cd, European sked and sticker in 2

months. No rp. (Troster-ONT).

MOZAMBIQUE: R. Mozambique, 9620, f/d "World Map" cd in 4 1/2 months. No rp.

(Muick-PA): 4865, same in 13 weeks for EE rpt, 2 IRC's and pcd. Power-25 KW.

(Brown-BC).

NETHERLANDS: R. Nederland, 11730, f/d "Antenna Towers" cd in 25 days for

rpt on "Happy Station" xmsn to W. Africa. No rp. (Fick-OH): 9895, cd in 3

months w/site (Lopik) and freq. (Barto-CT).

NETHERLANDS ANTILLES: R. Nederland Relay, 6165, f/d "DX Personalities" cd

and history sheets in 54 days. No rp. This is the 2nd verie for 1 rpt on

their Anniversary Prgm. (Schulman-NY); same cd, sked and ltr in 30 days for

1 IRC and pcd. (Miller-WV); f/d "Glenn Hauser 10<sup>th</sup> Anniversary" cd in 2 months

for SASE. Heckuva long wait, but it's a neat card, Glenn! (Muick-PA); f/d

- "Wooden Antenna" cd in 15 days. No rp. (Lobdell-MA).  
TWR, 15255, f/d "Antenna Tower" cd, sked and barrage of religious info in 25 days. No rp. (Fick-OH).
- NEW ZEALAND:** RNZ, 15130, f/d cd, pennant, sked and friendly ltr in 22 days  
For 1 IRC. (Howard-CA); f/d "Geothermal" cd, sked, ltr and sked correction in 13 days for 1 IRC. (Desrosiers-MA); f/d cd, sked in 17 days for 1 IRC. (Myers-AZ): 11705, f/d "Rugby" cd, sked of all rugby games in 24 days for 2 IRC's. (McGonnell-MA): 15110, f/d "Hot Springs" cd, sked in 15 days for 3 IRC's. (Noon-IL): 6105, "Wellington" cd in 3 weeks for 2 IRC's. Also got ltr, sked and Kiwi pin. (Lobdell-MA).
- NIGERIA:** NBC-Lagos, 7255, "Flag" cd in 41 days for 1 IRC. (Primm-IL).  
NBC-Jos, 5965, QSL form ltr w/site in 8 weeks. (Cosier-AUST).  
NBC-Sogunle, 4990, f/d ltr in 24 days for 1 IRC. (Hermann-ONT); same with sked in 72 days for 3 IRC's. (Zajda-MA).  
NBC-Enugu, 6025, f/d ltr in 1 month. No rp. (DeRoy-ME).
- NORWAY:** R. Norway, 15175, f/d "River" cd, sked in 50 days. No rp. (Grenier-CA); f/d "Mountain Road" cd in 50 days. No rp. (Wolfish-ONT): 11860, f/d "Kaupanger Fjord" cd in 16 days. No rp. (Primm-IL).
- OMAN:** R. Oman, 11890, f/d cd with view of Muscat in 1 month after f/up and 1 IRC. (Sparks-CA).
- PAKISTAN:** R. Pakistan, 6210, cd in 3 months. Site, anybody?? (Barto-CT).
- PAPUA NEW GUINEA:** NBC, 4890, f/d map cd and fact sheet in 25 days for 1 IRC. (Lobdell-MA); same in 29 days for 1 IRC. (Shotola-IL).  
R. Northern District, 2468, verie form in 4 months for 1 IRC. (Legge-VA).
- PERU:** R. Madre de Dios, 4952, SS ltr and small cd in 4 months for SS rpt and mint stamps. V/s Frco. Javier Aniz, o.p. (Sparks-CA). What's "o.p."?
- PHILIPPINES:** FEBC, 17810, f/d "Studio" cd in 32 days for 1 IRC. (Cohen-NJ): 15440, f/d cd, sked in 19 days. No rp. (Myers-AZ): 9715, same in 31 days. No rp. (Gercken-IL).  
VOA-Tinang, 15290, date-only cd in 53 days. No rp. (Petrov-ONT); f/d cd and full skeds in 8 days. No rp. (Alexander-PA).
- POLAND:** Polish Radio, 11815, two "Heraldic Arms" cds in 28/43 days. No rp. (Oliver-PA); same in 1 month. No rp. (Valko-PA); same cd, sked, rpt forms, warm ltr from Lech in 43 days for EE rpt on EE/Polish xmsn. (Poppin-CA): 15120, same in 21 days. No rp. VIC #50 and best European. (Brooker-ONT). It is always the best European! 15120, same with PR pin in 3 weeks. No rp. (Sapoznikow-MAN).
- PORTUGAL:** R. Portugal, 21700, f/d "Ancient Map" cd, sked in 16 days for 1 IRC. (Desrosiers-MA): 6025, f/d "Hotel da Granja" cd, sked in 14 days. No rp. (Primm-IL).  
Radio Free Europe, 17735, f/d cd w/site in 10 days. No rp. (Kusalik-ONT); date/mb cd in 21 days for US quarter. (Troster-ONT).
- RHODESIA:** RBC, 3306, hugh blue/white cd in 24 days. They returned my IRC. (Shotola-IL).
- ROMANIA:** R. Bucharest, 15240, f/d "Romanian Athenaeum" cd, sked and pennant in 52 days. No rp. (Mayer-IL): 15365, same cd, SW Club and tourist info in 6 weeks. No rp. (Streveler-HI): 5990/11940, six different cds for 6 rpts in 2 months w/sked. In my opinion Romania ranks at the top in QSL's over Norway, Czechoslovakia, etc. (Wolfish-ONT). Could be. I have 17, all different.
- SABAH:** R. Malaysia-Sabah, 5980, cd and nice ltr from Ms. Ramlah Amir in 8 weeks for EE rpt, 1 IRC and ped. (Brown-BC).
- SEYCHELLES:** FERA, 9510, f/d orange map cd, sked and small religious pamphlet in 16 days for 1 IRC. Four "Pirate" stamps postage totaled 2.00. (McGonnell-MA); same in 25 days for 3 IRC's. (Petrov-ONT): 9700, same in 13 days for 2 IRC's. (Wright-TN); same in 25 days for 1 IRC. (Shotola-IL).
- SOLOMON IS:** SIBS, 5020, f/d cd in 1 month. No rp. (Muick-PA).
- SOUTH AFRICA:** R. RSA, 9585, f/d "Protea" cd, pennant in 21 days. No rp. (Berezowski-ALB); same cd, sked in 21 days. No rp. (Scott-ONT): 11900, same cd, pennant, "RSA Calling" in 23 days for 2 IRC's. (Sciacca-CA): 9585/21535, f/d "Protea" and "Johannesburg" cds in 23/28 days. No rp. (Lobdell-MA).  
SABC-Springbok Radio, 7185, f/d cd in 23 days for 1 IRC. (Streveler-HI).
- SPAIN:** RTVE, 6065, cd, skeds for 3 xmtr sites and rpt forms in 24 days for ped and 1 IRC. (Müller-WV); same in 19 days. No rp. (Primm-IL): 11880, f/d "Toledo Xmtr" cd in 23 days. No rp. (Fick-OH).
- SRI LANKA:** SLBC, 15425, f/d cd featuring nice looking girl wearing lots of Jewels in only 14 days. No rp. V/s J.A. Herath. (Gionet-NE). Only Jewels?  
AWR, 15425, f/d "AWR/Vienna 75" cd w/"SRI LANKA" stamped on it in 21 days for rpt sent to Portugal. No rp. (Gionet-NE).

VOA-Colombo, 15185, f/d cd in 6 days. No rp. (McGonnell-MA); f/d cd in 7 days. No rp. (Cannon-NC).

SUDAN: R. Omdurman, 5039, ltr w/date, verie statement and sked which lists 4994 kHz in 2 1/2 months. No rp. V/s Ali M. Ali. (Bishop-PA).

SWAZILAND: TWR, 9590, f/d folder cd, sked and info in 14 days for 1 IRC. (Wright-TN); same in 28 days. No rp. (Myers-AZ): 11955, same in 24 days for 1 IRC. VIC #80! (Willis-KY): 5055, same in 20 days for 1 IRC. (Shotola-IL).

SWEDEN: R. Sweden, 9695, f/d map cd, sked in 31 days. No rp. (Berezowski-ALB); in 26 days. No rp. (Howard-CA); in 17 days. No rp. (Ebert-WI): 11905, in 14 days. No rp. (Lobdell-MA); in 19 days. No rp. (Alexander-PA); in 13 days w/pennant. No rp. (Hamilton-SC): 11705, f/d "25th Anniversary Stamp" cd in 49 days w/rpt form. No rp. (Mayer-IL).

SWITZERLAND: SEC, 6045, f/d "Two Bobs" cd in 104 days. Sked came in 42 days. (Desrosiers-MA): 9725, f/d "Building" cd, sticker in 30 days for 1 IRC and mint stamps. (Neff-IL): 15305, f/d "Two Bobs" cd in 3 months. No rp. Sked arrived separately. (Streveler-HI).

IGRC, 7210, date/freq "Globe" cd in 27 days for trilingual form. (Cohen-NJ).

SYRIA: R. Damascus, 9655, f/d map cd, pcd, cloth emblem, sked and tourist info in 6 months for 1 IRC and EE rpt on AA xmsn. (Cannon-NC).

TADZHIK SSR: R. Moscow via Dushanbe, 15220, f/d "Space Memorial" cd in 38 days. No rp. (Mayer-IL): 7135, same in 5 weeks. No rp. (Kusalik-ONT).

TAHITI: R. Tahiti, 15170, f/d "Island Girl" cd in 23 days for Gilfer EE/FF rpt. No rp. (Hoffman-PA); in 18 days. No rp. (Hamilton-SC); in 14 days for 2 IRC's. (Wright-TN); in 22 days for 1 IRC. (Lister-BC): 11825, in 22 days for FF rpt. No rp. (Rude-CA).

TAIWAN: V. of Free China, 15345, f/d cd and sked in 1 month. No rp. (Howard-CA): 17890, f/d "Birds and Rice Grain" cd, sked, newspaper and pennant in 27 and 28 days. No rp. (Wisblood-CA).

Central Broadcasting System, 11905, magnificent 'A-4' size f/d cd and folder in blue/gold and ltr from Deputy Director Chen Mei-Sheng in 16 days. No rp. This used to be a black verifier! (Cosier-AUST). Beautiful!!

ELBC

QSL

GREETINGS FROM

THE LIBERIAN BROADCASTING CORPORATION

sound of progress

verification of our signal heard on 3255 kHz Mc's:

at 2210 ..... G.M.T. November 11, 1977

2224 ..... (Date)

Signed A.F.C. Finnegan (Chf. Eng./LBC)

A little  
nostalgia  
from  
JOHN  
HERKIMER

TANZANIA: R. Tanzania, 15425, f/d cd in 32 days for 1 IRC. Power still 50 KW. Has anyone ever received a sked from them? (Ravenhorst-MN): 4785, cd in 7 weeks. (Barto-CT).

TOGO: R. Togo, 5047, "Globe" cd in 45 days for 1 IRC. (Shotola-IL).

TUNESIA: RTV Tunisienne, 7275, f/d "Palais d'Orient" cd in 3 weeks for 1 IRC. (Lobdell-MA); f/d "Korbous" cd in 15 days (!) for EE rpt. No rp. With the Canadian Post Office that must have been a miracle! (Wolfish-ONT); f/d "Pottery" cd in 16 days. No rp. (Hamilton-SC): 15225, f/d cd in 57 days. No rp. (Myers-AZ).

TURKEY: V. of Turkey, 11880, f/d "Folk Dancers" cd, sked and tourist info in 14 days. No rp. (Mayer-IL); only sked, white "Eagle of Seljuk" pennant in 7 weeks for EE rpt. I like pennants better anyway! (Wolfish-ONT): 9515, f/d "Kelogian" cd and pennant in 50 days for 1 IRC. (Wright-TN).

TURKMAN SSR: R. Moscow via Ashkhabad, 11930, f/d cd w/site and SS ltr from Gertrudis Fiodorova in 1 month for SS aerogramme rpt. Thanks to Roger Legge for another excellent tip! (Herkimer-NY); f/d cd in 43 days for SS rpt on LA Svc. No rp. (Mayer-IL).

UGANDA: UBC, 9730, date-only personal ltr in 4 weeks after f/up. V/s David R. Buga said my first rpt never reached the station. (Brown-BC): 15325, verie ltr w/o time saying they would send me a QSL cd and sked when they were in stock. Received in 1 1/2 months for 2 IRC's. (McGonnell-MA).

UKRAINIAN SSR: R. Kiev, 7150, f/d cd, quiz sheet, sked in 65 days. No rp. (Primm-IL): 7360/7215, f/d cds in 87 and 48 days. No rp. (Hermann-ONT): 4920, cd in 5 months for EE rpt on GG xmsn. (Barto-CT).

R. Moscow via Kharkov, 11970, cd in 1 month. No rp. (Oliver-PA). Via Simferopol, 17855, f/d cd in 60 days. No rp. (Cannon-NC). Via Lvov, 7120, cd in 1 month. (Barto-CT). Via Vinnitsa, 5940, f/d cd in 61 days; 9720, same in 45 days. No rp. (Hermann-ONT): 9775, same in 1 month. (Barto-CT).

R. Moscow Home Svc via Lvov, 9765, f/d cd in 44 days for EE/RR rpt on RR xmsn. (Poppin-CA).

UNITED STATES: VOA-Greenville, 6020, cd in 8 days. No rp. My first QSL! (Ashley-IN): 5995, f/d cd in 11 days for SASE which wasn't used. (Noon-IL); cd w/o date in 7 days. No rp. (Cannon-NC): 9580, f/d cd in 7 days for EE rpt on SS xmsn. No rp. (Fraser-MA).

VOA-Bethany, 6130; VOA-Delano, 21610; VOA-Dixon, 17820, cds w/o dates in 7 days. No rp. (Cannon-NC).

AFRTS-Greenville, 11790, cd in 11 days for mint stamp. (Neff-IL); cd in 150 days. No rp. (Myers-AZ). AFRTS-Bethany, 9755, f/d cd in 7 days. No rp. (Cannon-NC). AFRTS-Dixon, 17765, f/d cd in 8 days for SASE which was returned. (Noon-IL).

WVW, 10000, cd and history in 15 days. No rp. (Miller-WV). UN Radio, 15410, f/d blue/white cd and sked in 49 days. No rp. (Brooker-ONT); f/d cd and sked in 3 months. No rp. Their live broadcasts of Security Council sessions are a must for the SWL. (Streveler-HI). Agreed! WYFR, 6155, f/d "Mike" cd in 12 days for SASE which was not used. (Noon-IL); same cd, sked, religious material, pocket calendar and a letter offering to make me an official monitor! All in 8 days for mint stamp. (Neff-IL).

KGEI, 5980, f/d cd, sked, pennant in 68 days for 1 IRC. (Scott-ONT): 9555, same in 18 days. (George-TX).

BEC Relay-Greenville, 9510, no-data "Bridge" cd w/note that "K" on the freq sked means "Greenville Relay" in 32 days. No rp. (Delmage-MAN).

UZBEK SSR: R. Tashkent, 9600, cd, ltr and pcd in 3 months. This is my QSL #10,000!!! (Barto-CT); f/d cd, pcd and tourist info in 50 days. No rp. (Meehan-CT).

R. Moscow via Tashkent, 9520, f/d cd in 6 weeks for rpt on S. Asian Svc. (Legge-VA).

VATICAN: Vatican Radio, 5995, f/d "Antenna/Statue" cd in 12 days for 1 IRC. (Zajda-MA): 9605, same in 9 days. No rp. (Fick-CH): 11700, cd in 2 weeks. No rp. (Grenier-CA).

VENEZUELA: R. Nacional, 15400, form ltr w/o time and "15390" crossed out in 35 days. No rp. (Petrov-ONT); same in 14 weeks. No rp. (Cosier-AUST).

R. Occidente, 3225, ltr in 13 months for 1 IRC. (Legge-VA).

R. Barquisimeto, 4990, f/d cd in 29 days. No rp. (Myers-AZ).

R. Universo, 4880, f/d cd in 30 days for 1 IRC. (Shotola-IL).

R. Rumbos, 4970, f/d cd in 74 days. No rp. (Myers-AZ); same in 45 Days for 1 IRC and pcd. (Miller-WV).

R. Juventud, 4900, "Dancers" cd w/o time and SS ltr in 42 days for 1 IRC. (George-TX); same in 44 days for SS rpt and 1 IRC. (Shotola-IL).

Ecos del Torbes, 4980, SS ltr and pennant with my name on it in 3 months for NASWA SS rpt, mint stamps and 1 IRC. (McGonnell-MA); in 50 days for SS rpt and 1 IRC. (Shotola-IL); in 128 days. No rp. (Delmage-MAN); in 59 days for SS rpt and 1 IRC. A "date-only" verie and even that was wrong! (Alexander-PA).....and that's all for this month.

"ALLOW SIX TO EIGHT WEEKS FOR DELIVERY" DEPT: M.W. Delmage of Manitoba, Can. sent a 1974 report to "Springbok Radio" in South Africa and received a quick QSL. They said they couldn't fill his pennant request because they were out of stock, but they would be happy to send him one when the new ones came in. On January 25, 1977, some three years later, the pennant arrived. Now that's service. In fact, he got another one three days later!

Please remember to include your last name and state after every item in your report. It helps. Keep smiling and don't forget Polish Radio!

Deadline for September issue: August 13.  
Deadline for October issue: September 10.

Bill

# log report section



DANIEL A. ROBINSON, EDITOR  
44 Spring Valley Rd.  
Levittown, PA 19056

1605-4900

JULY 1977



Thanks to all devoted Section A contributors--without you we would have had a hard time this time around. A special note of thanks to our Australian friends for their assistance. A few days after the first day of summer, the bands are "so-so" and the boomers have been Tahiti and Australia....From now on, a small space will be set aside at the beginning of each IR-A in order to spotlight the most interesting log(s) of the month, so get them in folks. We'll also have items of interest pertaining to shortwave and international broadcasting.....

- 2335 INDONESIA RKPd Tasikmalaya; VG at 1157 w/ads, partial ID 1159 (Foster, Cosier)  
2340 CHINA PLA-1; 1215 CC tlk by M to 1223, F (Wiseblood 6/5)  
2390 GUATEMALA LV de Atitlan; 0045 in Guatemalan mx, ID in SS, P (Bishop 5/16)  
2428 NEW IRELAND R. New Ireland; M in lcl lang tlk, poss Pidgin, P (Wiseblood 6/5)  
2468 PAPUA NEW GUINEA R. Northern District; 1240-1300\* Pidgin, rock mx with DJ in Pidgin; totally unexpected, hrd while searching for CHINA-2475 (Wiseblood 5/4)  
Time for 2428 was 1218-1225-DR  
2475 CHINA Zhejiang-1; 1205-1230 CC, W in tlks (Wiseblood 6/5) Zhejiang is the region according to WRH and not a city-good log...  
2475 INDONESIA R. Angkatan Bersenjata; armts & Indo mx @ 1236 under China (Foster, Cosier)  
2490 CHINA PLA-1; 1235-1240 M in CC w/speech, fair on peaks of fades & only 120m CC hrd this AM (Wiseblood 5/15)  
2495 MADAGASCAR Tananarive; Modern vocals 2050 thru to 2100\* after ID/anthem--is recent NF, previously logged by R. Yeo from Adelaide (DX-W Bob Padula and Robert James on DXpedition to Western Victoria) This is the FF svc of RTVM--IR  
2510 SOUTH KOREA 1214-1231 M in KK, fair at 1230 w/low mod (Wiseblood 6/5)  
2520 INDONESIA RFD...? Good lvl but for mod, ID 1220 after Jakarta mx relay (XX Foster and Cosier on DXpedition in Australia 150 mi North of Melbourne)  
2746 N. KOREA Simju; 1204 in KK, w/commentary (Poppin 5/23)  
2765 N. KOREA Pyongyang; 1225-1240 in KK, //2850, 2775 w/light opera mx (Wiseblood)  
2775 N. KOREA Hamhung; 1235-1240 same as above but stronger on this freq (Wiseblood)  
2850 N. KOREA Pyongyang; 1154-1245 w/semi-classical mx, beep at 1200 and into conty w/tlk in background (Poppin, Wiseblood)  
3015 N. KOREA Pyongyang; 1206 KK, vocals and orch. mx (Poppin 5/23)  
3210 MOZAMBIQUE RM; 1848 lcl mx, some tlk, PP (Wootten-Italy) 0405-0415 M w/tlk in lang, short mx interludes (Perdue 4/24)  
3215 SULAWESI RRI-Menado; Now noted here and ID at 1425, excellent lvl 5/10 (Willis)  
3223 SWAZILAND SCR; EE rel. show around 2146 (DX-W 5/8) SMR Bob??  
3232 CONGO Brazzaville; 2220 f/in, FF tlks by M 5/9, inaudible after 2230 (DX-W)  
3240 SWAZILAND TWR; \*0315 IS w/bells, ID, rel. mx, all in vern. (Wootten 5/30) 0400-15\* choral hymns, M&W in tlk in lang (Perdue 4/24)  
3250 SOUTH AFRICA SAB; 0120-0255 EE, light mx, cigarette ads, ID's (Thompson, Alexander)  
3265 COOK IS RCI; Very good lvl 0750 w/W in EE, and horrible 50's rock mx! Several ID's as 'Radio Cook Islands' is this only 5kw--good as PNG (XX 5/9) No, that's not Radio Canada Int'l is it...my day will come for this one--IR  
3275 VENEZUELA R Mara; 0218 SS, LA/YV pops, some ID's (Bishop 6/8)  
3280 UNID; 2030-2100\* West African type mx, M anor, UNID NA at s/off (Wootten 5/27)  
3275-0416\* in lang, rel. mx, amt and abrupt s/off--suspect Beira or Mpangela (Perdue 4/24) This has probably been ID'd by now--Madagascar, TWR, ???  
3285 BELIZE RB; 1155 w/pop mx, xed RRI Madiun 1200 seemingly s/on; on 4/14 and 4/15 w/C&W mx hetting w/RRI HIC 2101 (Cosier-Aus)  
3285 BRAZIL R Glinda; 0520-0530 PP, mx and tlk (Lineback 6/4)  
3286 PHILIPPINES PBS; 1100-1300\* //6170, erratic--DX'ers in Aust/Asia should not confuse w/Belize (XX) EE at 1200, E (Willis 5/16)  
3290 VENEZUELA UNID; 0240-53\* SS, LA mx, M w/tlk, ID sounded like "R. Rico" or similar; YV NA and off--Interesting! (Perdue 5/16)

- 3290 MADAGASCAR RTVM; Ex 3288, found 2000 thru 2100\* w/NA; mixes w/Port Moresby but consistently here (IX-W 5/10) FF amts
- 3295 VENEZUELA R. Trujillo; 0210 SS, pops, ads, ID as 'Tru-hi-ki-o (Bishop 6/8)
- 3300 GUATEMALA R Cultural; 0230-0330 rel. px, SS, guitar mx (Godfrey, Luce)
- 3307 RHODESIA Gwelo; Vern mx read by M 2000 (IX-W 9/5)
- 3315 ECUADOR R. Pastaza; 1120 w/ID, Andean mx, VG (XX 5/13)
- 3316 SIERRA LEONE SLBS; 2000 f/in w/nx in EE by W, still there 2220 (IX-W 5/9)
- 3325 GUATEMALA R Maya; 1115 and 0200 SS/Indian, ID's, guitar mx (Luce, Thompson)
- 3335 TAIWAN BCC; 1300 in CC, tlks--no jamming observed (Cosier 4/16)
- 3340 ECUADOR Ondas del Mar; 0130-0320 LA pop mx, ballads, ID's usually "R Tropical" but "Ondas del Mar" at 0340 (Bishop 5/30) LA mx, plenty of R. Tropical ID's ships' whistle and "Radio Tropical presenta..." into mx 0205 (Perdue 5/30)
- 3340 CHINA Heilongjiang; 1208-1215 W in CC, F (Wiseblood 5/15)
- 3345 BRAZIL R. Educ Uberlandia; 0200 in PP, lcl Braz. folk mx w/occasional ID (Hoffman 5/29)
- 3345 ZAMBIA ZBS; Lusaka w/nx in Afr lang 2007 by M (IX-W 5/9)
- 3367 SUMATRA R Angkatan Udara; 1500 Indo, Jakarta mx, fair w/het from AIR 3365--I haven't hrd this before (Cosier 4/17) Nor I.....h
- 3367 GHANA GBC; EE 0530-0540 w/children's songs, tlk (Lineback) A drift?? DR
- 3375 ANGOLA R Nac; 0451-0457, slow tlks in PP, 0457 ID and mentions of Angola and socialism, into vocal mx (Wolfish 6/4)
- 3375t DOM REP R San Juan; 0030-0200 SS, island pop mx, M ancr, ments of Republica Dominicana, but no ID hrd (Bishop 6/13)
- 3380 ECUADOR R Iris; 0115-35\* SS, Ecuadorian mx, M&W, nx of Ecuador, E (Perdue 5/16)
- 3390 ECUADOR R Zaracay; 1017 & 0207-0337 SS, mx, TC's, inst. mx (Jones, Goldman, Wootten) Charlie Wootten says first time he's hrd it in Italy at 0337.....DR
- 3395 VENEZUELA R Universidad; 0300 SS, YV guitar mx (Hoffman 5/18)
- 3396 RHODESIA RBC; Mx, ad for Coke 0415-0430 (Godfrey)
- 3396 NIGERIA Kaduna; After RBC\*, tlk by W to 2215 (IX-W 5/10)
- 3450 CHINA RP; 1230-1235 M in CC tlk, rev. mx, operatic mx (Wiseblood 5/15)
- 3482 BOLIVIA R. Padilla; Those rptg UNID for this one can be pretty sure of Padilla 0045-0110 SS, LA mx, tlk by M, some U.S. pop inst and tlk by W (Perdue 5/16) Full ID as "Radio Padilla" on tape when noted one stormy night to past 0200..DR
- 3540 AUSTRALIA ABC; 6 x 590 khz (3WV Horsham) 1300--almost thought this was the 'Indol (Cosier 4/16) If consistent, beware all in Australia/Asia.....DR
- 3544 PERU Rdfc La Convencion; ex-3552 (IX-Clube de Brasil via WRH via TDXN -64)
- 3560 N. KOREA Pyongyang; 1220 EE w/w in familiar cmt (Poppin 5/23)
- 3578.3 USSR: Foss feeder, Pgm-1 1212-1220 in RR tlk by M&W, break in pgm 1215-17, then folk mx and operatic mx pgm (Wiseblood 5/15)
- 3607 JAPAN NHK-Tokyo; 1224-31 JJ, ID, M&W in vocals (Poppin 5/23)
- 3860 PAKISTAN RP; 1500 Urdu, time pips 1500, then M ID as Radio Pakistan--Is this Quetta, Peshwar or what? Not Karachi (Cosier 4/13) I think Quetta--DR
- 3886 CAPE VERDE RRCV; 0815-0825 PP, rock mx, Doobie Bros., short amnt by M and into next song to 0825 f/o (Hoffman 6/4) 2140 pop mx, amts in lang--was hoping for Praia as was a VG W. African morning on 60 m (Cosier 5/18)
- 3920NF CHINA RP; HS-1 noted here //6225 at 1100 (Willis 5/15)
- 3930 S. KOREA KBS-Seoul; Fine lvl w/HS 1400 //6135, KK nx (Willis 5/10) 1500 in KK ID as "K.B.S." (Cosier)
- 3940 CHINA Wuhan; 1230-1238 inst. mx, // 4980 W in CC between songs (Wiseblood 6/2)
- 3945 MALUKU RRI-Ternate; ID 2103, then pops, over modulated (XX 5/12)
- 3950 CHINA Xining; 1235-1245 CC, oriental mx, operatic songs (Wiseblood 6/2)
- 3970 CAMEROON R Buea; African chants 2132, fair to 2200\* w/EE ID "This is Buea" (Cosier)
- 3970 JAPAN NHK; noted well here 1300 mixing w/others (Willis 5/16) Like the one below
- 3970 CHINA Huhehaote; 1240-1245 CC, M&W in CC tlk (Wiseblood 6/2) ??
- 3985 ECUADOR Esc R/F Pop; mind-blowing signals 1108 w/promos, mx (XX 5/11)
- 4020 PAKISTAN RP; Fine lvl 1430 w/ID in Urdu (I think)--no sign Peking (Willis 5/20)
- 4030 USSR Anadyr; 1245-1300 RR, class mx, not usually noted this period; //4040 Vladivostok (Wiseblood 6/2)
- 4045 CHINA Fuzhou; PLA-1 1235-1240 in CC, tlk by W //2490, 2340, 3000 (Wiseblood)
- 4050 KIRGHIZ SSR Frunze; 1239-1301 in RR, TC 1300 "16 Chasov" (Poppin 5/23)
- 4060 PAKISTAN RP; noted well at \*1400 //5061 in Urdu (Willis) WRH-Rawalpindi--DR
- 4460 CHINA RP; 1240-1245 CC, light inst CC mx (Wiseblood 5/30)
- 4526v CHINA Xilinhaote; 1300-1305 CC, W in tlk (Wiseblood 5/30)
- 4610 ASIANIC SSR; Khabarovsk; 1327 RR flute w/symph orch (Poppin 5/22)
- 4696 BOLIVIA R Riberalta; 0312 SS, extremely weak (Goldman)
- 4721 UNID: @2147 w/inst mx, into long tlks w/W & M to 2202 when seemed s/off on 3/23. Also again 5/25 w/long tlks (speech?) in lang, could be PP/Slavic...Surely not Mindelo (Cosier) I believe likelihood of Mindelo very low, but 2200\*?? maybe There have got to be some European DX'ers who can ID this one for sure....
- 4755 BRAZIL Rdfc Maranhao; 2342 PP, M w/sports event, CRM fm Colombian (Krueger)

- 4760 SWAZILAND TWR; 0440 in rel px, mx and tlk (Grenier)
- 4765 CONGO RTVC; 1857 thru 2345 w/lcl pops, FF tlk, ID in FF (Wooten-Italy, IX-W, XX, Kreuger, Schwartz)
- 4770 BRAZIL R Em Rural; PP anmts, ID's, slogans-very rare in Melbourne (Cosier)
- 4770 LIBERTIA ELWA; 1859-2244 EE rel. px (Wooten, Pineault)
- 4770 VENEZUELA R Bolivar; 1045 SS, ID's, ads-het w/Pyeongyang (Cosier) 0230 (Luce)
- 4775 JAVA RRI-Jakarta; EE lessons 1020-may be a R Australia transcription (Cosier)
- 4779 SURINAM SRS; 0059-0333v\* English pop & soul mx, s/off anmt and choral NA..
- 4778 noted on new Sony CRF-320 freq display(Goldman, Cress, Brooks)
- 4780 VIETNAM Liberation R; 1046 VV, lang W & M in discussions, little mx-1st time hrd here! (Cosier) Geoff, are they ID'ing as Lib R?!--DR
- 4780 VENEZUELA LV Carabobo; 0230-0354 pop mx, ID's, chimes, NA at s/off (Bishop, Pineault 6/7) Seems to be a problem with SRS/LV Carabobo QRM, no?
- 4782 HONDURAS R Juticalpa; 1100 SS, ID, Ads, Morning greetings, LA mx (Miller 5/16)
- 4785 TANZANIA RT; 0332-0416 Swahili, lcl mx, M in tlk, time pips & ID 0400, strong as of late along with Nairobi 4915 (Kraeger, Bogal, Cress)
- 4785 UNID: 0543-0550 Lo American mx, 0550 SS tlks, then s/off w/NA (Wolfish)
- 4785 AZERBAIJAN SSR Baku; 1904, mx by M in lcl lang, QRM de Dar es Salaam(Wooten)
- 4790 PERU R Atlantida; 0911 w/pop mx, SS tlks (Jones) 0940 SS, over RRI! w/Andean mx, SS anmts by W (Cosier) to 0600\* at good lvl (Willis)
- 4795 ECUADOR LV Caras; SS 0345-0410, LA/Ecuadorian mx, M ancr, ID (Perdue 5/8)
- 4800 VENEZUELA R Lara; 1035 & 0050 SS, LA mx, TC's, ID's (Tannenwald, Alexander)
- 4805 BRAZIL R Itatiati; 0100-35\*, M w/nx of Brazil, ID 0129, then world nx(Perdue)
- 4807 SAO TOHE RN; 2140-2301\* after light Afr. mx, PP tlks(DX-W, Cosier, Schwartz)
- 4810 VENEZUELA R Popular; \*0908 NA, ID "Radio Pop de Maracaibo" (Jones) 0300-0430 LA mx, TC's, ID's (Grenier, Overcamp, Luce)
- 4815 UPPER VOLTA RTV; 2238 w/FF tlks, audible to 2250 (DX-W)
- 4815 BRAZIL Rdif do Parana; PP 0115-40, accordian mx, ads, singing jingles ment of "Londrina", ID (Perdue)
- 4820 UNID: Latin stn, poss Paz y Bien, SS anmts, lcl mx (IX-W 5/8)
- 4820 ANGOLA RN; consisten sigs, thru to 0001 $\frac{1}{2}$ \*-This is 10:01 $\frac{1}{2}$  AM here! (DX-W 5/8)
- 4825 RFSFR Asiatic; 0910 RR, under RM Vladivostok's CC F.S.-- not hrd before and UNID; possibly Yakutsk?(Cosier 4/16)
- 4825 GUATEMALA R Mam; ID and s/off 0300 (Field)
- 4826 MAI Bamako; via long path, FF anmts, Afr. tunes f/in 0651 (DX-W)
- 4832 COSTA RICA R Reloj; 0405-0415\* w/ID's, mx; also 0900 w/LA mx(Luce, Ricahrdson, Delmage)
- 4830 GABON: Franceville presumed, FF pol tlks 2155 to 2200\* after anthem; ID missed and hrd one day only but similar to sked 1976 (DX-W)
- 4845 MAURITANIA Nouakchott; 2253 FF, nx (Pineault 6/8) 2100-2335 all AA w/pol tlks, running later s/off than WRH-77; other stns on freq this time, Kuala Lumpur s/on 2130 which often has Islamic chants and should not be confused(DX-W) 0600-0630(Wiseblood, Hoffman, Cosier)
- 4855 BRAZIL RC Para; 0155 & 0915 PP, M in tlk ment "Para""Clube do Para"; Cosier says beware RRI f/in 0930 (Cosier, Bishop)
- 4855 SUMATRA RRI Palembang; 1253-1301 after time pips and ID by M in Indo(Poppin)
- 4860 VIETNAM Hanoi; Hrd here again w/VV but unable to locate any // (Willis 5/16)
- 4860 VENEZUELA R Maracaibo; 2350-0815 LA mx, ID's in SS ( 8 rpters)
- 4870 ECUADOR R Rio Amazonas; \*1127 w/anthem, into Indian dialect/SS tlks (XX) 0301-0314\* tlk, mx pgm, ID's, NA fm 0314 to 0317 when c/off (Jones 5/26)
- 4875 IRIAN JAYA RRI-Sorong; 1257-1302 Indo, light MOR mx to 1300, then M w/nx presumed Jakarta relay (Wiseblood 6/5)
- 4875 BOLIVIA La Cruz del Sur; 0140-0205 EE, sermon, SS tlk, EE ID at close (Overcamp)
- 4882 DOM REP R Commercial; 0550 and 0908 LA pops, tlks in SS, ID 0600 (Wiseblood, Jones)
- 4883 CHINA RP; Mongolian from 1400-1455 (Willis)
- 4885 PERU R Huancavelica; 0400-0500v SS hrd here lately around s/off w/Peruvian mx, clear ID's, NA and off-whenver deep LA skip is in (Perdue)(Bishop)
- 4885 SUMATRA RRI-Bukittinggi; 1406-1451 in Indo w/nx and nice mx (Poppin 5/28)
- 4885 BASHKTR ASSR Ufa; 1334 in RR w/waltz mx (Poppin)
- 4885 BRAZIL R. Acreana; \*1000 "Acre emissora...." mx pgm until 1100 Meta s/on(Field)
- 4890 ECUADOR R Centinela del Sur; 0505\* SS, closing anmts, ID, Ecuadorian NA, runs late sometimes (Perdue) Another stn noted after Centinela s/off on 4892 has been tent ID'd as R San Juan in Peru--watch for it--DR
- 4895 SARAWAK Kuching; 1334 in lang, ID, caky, and mx (Poppin)
- 4900 ECUADOR LV de Saquisllí; SS, ads and Andean type tunes 1135 (Cosier)

Well, that's it for this time around. Everyone have a good summer and include your receiver in your travels wherever you may roam.....

# log report section



DANIEL A. ROBINSON, Editor  
44 Spring Valley Rd.  
Levittown, P.a. 19056

1601-4900

AUGUST 1977

Welcome back to "A" for August. First, a sincere apology to NASWA members for last month's omission. Please be assured it won't happen again. Second, as noted in the July "A" section, we will continue with a "Feature Log" spot in each IR-A, either at the beginning of the section or incorporated within the body of IR-A. Hopefully, this slight change in format will break the usual monotonous "list-look"..... Finally, we'll be trying out a different language abbreviation system, the one used by NNRG, the Newark News Radio Club. This is only a trial, and will affect IR-A mostly with languages such as: SS (SP), FF (FR), EE (EG), RR (RS), PP (PT), JJ (JP), KK (KR), AA (AR), and CC (CH). Also, Indon (IN). So, try these on for size and let us all know which seem better or worse than the NASWA system.

- 3810 EQUADOR New time signal station in Guayaquil as noted in LN-July... after \*0500 through to 0925 with time pips, SP anmts and sked given in 29th minute. . . fighting ARO QRM all the way ( Krueger, Hauser, Osterman, Delap, Bishop)
- 4807 SAO TOME & PRINCIPE Radio Nacional: 2155-2300\* w/PT tlk and pop songs, ID by W at 2200, NA at s/off (Gionet, Pineault)
- 4831 PERU R. Apurimac: 0310-0337 w/Bolero mx, ads; at least 3 good ID's, noted before mx 0315; 0330 "Apurimac" jingle, ID, TC's at 0335; no Reloj--co-monitored by UMDX'er G. Saposnikow (Roberts-MAN)
- 2360 UNID: After hearing fine signals from Guatemala I tuned to 120m and hrd def sigs here fm 1130-1140. Some mx and anmts. Hoping for Maya de Barillas-- this is an exciting prospect for me (Willis 7/4)
- 2390 GUATEMALA La Voz de Atitlan; 0130 in SP, LA mx and tlk (Luce 6/8)
- 2468 PAPUA NEW GUINEA R Northern District; 1000-1040 w/Pacific mx, tlk in Pidgin and possibly some EE, C&W mx, heavy QRM (Underdown 7/8)
- 2850 N. KOREA Pyongyang; 1235 in KR w/mx and M ancr (Bryan 6/16) 1257-1302 in KR w/beeps and ID, 1300 M in nx or emty (Poppin 6/10)
- 3200 SWAZILAND TWR; religious songs and GG tlks dual stronger 4760, Poor signals but little QRM (McNeil TDXN-67 6/24)
- 3204 NIGERIA NBC-Ibadan: 0525 in EG w/African mx, ID, then Nigerian rx by M (Howarth 6/23)
- 3210 MOZAMBIQUE RM; 0423 in PT w/pop mx followed by nx bulletin (Pineault 6/27)
- 3250 SOUTH AFRICA Springbok R; 0137 in Afrikaans(AK), mx, ads, M ancr (Leffler 6/12) 0427 in EG w/AK, C&W mx, ads, ID, TC, world nx; (Howarth 6/25)
- 3275 VENEZUELA R Mara; 0201 in SP w/ID, comls, pop mx (Jones 6/21) 0353 SP w/ID and tlk, mx (Pinchuk 6/18)
- 3280 EQUADOR LV del Napo; \*0522-0545\* in SP w/orchestral and class. mx (Myers 6/20)
- 3285 SOUTH AFRICA SABC; 0446 in EG, nx pgm on world affairs (Howarth 6/23)
- 3285 HELIZE RB; \*1100-1127 w/NA, prayers, ID's, into C&W mx pgm 1110 (Underdown) TC's, Ranchera mx, some tlk in poss Creole (Jones 6/23) 0351 in lang tlk, (Pinchuk 6/18) 0430 EG, hand mx, ID and nx about Spanish election (Bryan 6/17)
- 3295 VENEZUELA R. Trullio; 0210 in SP w/LA pops, ID's (Bishop 6/8)
- 3300 GUATEMALA R. Cultural; 1100-1130 w/low rel. tlk in SP, good lvl, no China; am fairly sure of // to 9505 under Phillipines, USSR, and one other! (Willis) 0345-0354 in EG w/rel. pgm, ID's, sermon (Bryan 6/15, Pinchuk 6/18) 0409 in EG rel. pgm and hymns (Myers, Howarth 6/25)
- 3315 EQUADOR R Pastaza; 0358 in SP w/tlk and light Ecuadorian mx (Pinchuk 6/19)
- 3325 GUATEMALA R Maya; 0140 in SP, LA mx and tlk (Luce 6/8)
- 3336v SENEGAL Ziguinchor; strong OC from 0550 onwards, FF tlks around 0610 by M (McNeil 6/24 via TDXN-67)
- 3345 BORNEO-KALIMANTAN RRI-Fontianak; 1250 in IN tlks, pop mx, M ancr (Bryan 6/26)
- 3345t ANGOLA Em. Nac/Buambo; 0525 nice African song, W in PT, then pop "Life Goes On", followed by more tlk, mentioning Nacional, maybe ID; good signals dual weaker 5061.5-gone by 0600, not noted since (McNeil 6/24 via TDXN 67)

- 3360 PAPUA NEW GUINEA R Milne Bay; 0915 in Pidgin tlks by M, mx; better than North Solomons and E. Sepik (Bishop 6/15)
- 3366 GHANA GBC; 0538 in EG w/ID giving meter bands, TC's, pops (Howarth 6/23)
- 3380 ECUADOR R. Iris; 0320-0334 in SP w/tlk and light mx (Pinchuk 6/19)
- 3380 MALAWI MBC; 0334 in Chichewa w/tam-tam mx, P (Pineault 6/29)
- 3385 PAPUA NEW GUINEA R E. New Britain; 0920-0945 in Pidgin, pop mx, tlks, mx by W; 0930 several ID's (Bishop 6/15)
- 3390 ECUADOR R Zaracay; 1045-1058 nice Ecuadorian folk mx (Underdown) 0130 in SP LA mx w/numerous ID's (Pinchuk 6/18) 0400 SP w/LA mx, ballads (Howarth 6/25)
- 3395 VENEZUELA R Universidad; 0134 in SP w/tlk, LA style mx (Pinchuk 6/18)
- 3396 RHODESIA REC; 0415 EG w/ads, mx, TC, and much the usual (Howarth, Pineault)
- 3482 BOLIVIA R. Padilla; 0130-0230+ in SP, typical LA format but can't catch ID--some nights good, others rotten (Perdue) This one has been ID'd as Padilla by your truly and others in TDXN-67. Music style can easily fool anyone as it does sound typically "LA" and not folk Bolivian, but they do play quite a bit of local stuff--IR--Hi Neal...
- 3810 ECUADOR HDZIOA; Per Glenn Hauser this seems to be the call until someone verifies this one and neglected to mention //7600 in "Feature Log"
- 3952 GT. BRITAIN BBC; 0145 in Hindi w/mx--not listed WRVH '77 (Leffler 6/12)
- 3955 SOUTH AFRICA SABC; 0423-0430 in AK w/ID, cmty and mx (Poppin 6/13)
- 3965 SOUTH AFRICA SABC; 0430 onwards in EG, mx, ID (Radio Today program) (Godfrey 6/10)
- 3980 SOUTH AFRICA SABC; 0020-0445 EG w/nx, ads and jingles, also mixed w/AK tlk, (Luce, Bishop, Howarth, Godfrey)
- 3985 ECUADOR Escuelas Radiofonicas; 1026-1036 in SP, M ancw w/ID and into some beautiful Andean instrumental songs (Krueger 6/16)
- 3995 W. GERMANY DW; 0233 w/nx, mx and GM tlks, classical mx (Gagnon) 0353(Howarth)
- 4680 ECUADOR R. Nac Espejo; 0100-0423 in SP w/LA mx, ID's and ads (Filka, Sillings, Tannerwald)
- 4718 SULAWESI RRI-Ujung Pandang; Nice signals, and how has its very own interval signal: of the piano variety it can be heard before the 1100 mx(Willis-Aus) 1257 in IN w/MW tlk, ID (Bryan 6/16)
- 4738 BOLIVIA R. Abaroa; 0330-0358 in SP, folk like mx, local Bolivian mx w/M ancw, ID and s/off (Bryan 6/19)
- 4725 BURMA BBS; 1304 in Burmese, M & W in conversation (Bryan 6/16) Out of order..
- 4736 LAOS Luang Prabang; Hrd at 1340, was not pakistan at this time; good lvl, some Asian mx and Laotian ancwts but no ID; also another Indo-China Asian on 4794 same time--not Fak Fak (Willis 6/20)
- 4755 COLOMBIA Em Nuevo Mundo; 0440-0550 in SP w/LA mx and mx (Alexander, Pinchuk)
- 4765 CONGO ETV; 2218-0050 in FF w/lcl mx, drums and tlks (Earhart, Delap, Leffler, (Alexander)
- 4770 VENEZUELA R. Bolivar; 0005-0105 in SP, LA mx, ID's and ads (Tannerwald, Alex/
- 4774 INDONESIA RRI-Jakarta; now has EG lessons at 1345 to 1400 on (Alexander) Fridays (Willis)
- 4775 BRAZIL Voz de Oeste; 0815 in PT w/Brazilian mx, ads, TC's and tlks (Tannerwald)
- 4775 UNID; 0350-0405 SP weak stn here one day, pop mx, ballads, lost to s/off 0405 (Bishop 6/16) Just checked this Gerry and can get nothing but QRN--DR
- 4777 GABON RTVG; 2230-2310 in FR tlks w/lcl mx, M ancw (Alexander, Gionet 6/13)
- 4780 SURINAM SRS; 0249 in Dutch tlk, two M in tlks, ID on hour by W and into late disc pgm (Brookwell) 0333 Dutch/EG w/pops (Bryan 6/17) 0315-0334\* w/jazz mx, NA (Godfrey) 0924 in Dutch w/pop instr. mx, chorus (or NA), ID w/freqs, mentions of Paramaribo and Surinam and into lang tlks (Jones 7/6) Hindi likely-
- 4780 VENEZUELA LV de Carabobo; 0216 SP, singing ID, comls, Venezuelan mx; intense HET present, probably from SRS (Jones 6/21)
- 4790 PERU R Atlantida; 0353 SP, Peruvian mx, pops, ads, ID (Bryan 7/17)
- 4790 ECUADOR Sistema Em Atalaya; 0340 SP, ID's, LA pops, F (Bishop 6/16)
- 4795 ECUADOR LV de las Caras; 0330 in SP, some pop mx, ID's w/M ancw (Bishop 6/16)
- 4800 VENEZUELA R Lara; 0020 in SP, LA vocals, TC, ID (Tannerwald 6/19)
- 4807 SAO TOHE & PRINCEPE R Nac; As noted in 'Feature Log' by Gionet, and Pineault, from 2155 to 2300 w/pop mx pgm in PT, NA at s/off....
- 4819 COLOMBIA R Guatupuri; 0050 in SP, mx briefs, TC's, mx, ID (Tannerwald 6/19) 0948 SP, ID, LA pops (Jones 6/14)
- 4815 UPPER VOLTA Ouagadougou; 0545 in lang, Af chants, tlk by M (Bishop 6/13)
- 4820 HONDURAS HRVC; 0252 SP, rel pgm (Bryan 6/17) 0300-0315 EG w/Hour of Decision Pgm (Brooker 6/27) 0438-0445 EG w/rel. pgm, sermon, mx, ID (Howarth, Pinchuk)
- 4825 DOM REP LV Fuerzas Armadas; \*1000 w/NA, bugles and drums, ID as HIFA, giving fags (Jones 6/17)
- 4832 COSTA RICA R Reloj; 0515-0815 SP, LA mx, DJ w/ID's (Bryan, Tannerwald, Alexander)
- 4835 SARAWAK RM-Kuching; 1310 in Bahasa Malaysia, M in chants, W in tlk (Bryan)
- 4845 HAUT-TOURNAI Nouakchott; 2355 in AR chanting by M (Leffler 6/11)

- 4850 DOM REP R Clarin; 0330-0830 SP, LA mx, tlks, ID's (Filka, Bryan, Tannenwald, Alexander)
- 4851 UZBEK SSR Tashkent; Fair level 1400, QRM from other stns, most notably a TENT Mauritius on 4852 (Willis 6/15)
- 4855 SUMATRA RRI-Palembang; 1313 IN, M&W in conversation (Bryan 6/16)
- 4855  BRAZIL RC Para; 0015 in PT, constant tlks between 2 men, QRM, ID (Tannenwald)
- 4860 VENEZUELA R Maracaibo; 0535 SP, ID and LA mx, tlk (Alexander) 0815 w/the same (Tannenwald 6/24)
- 4865 COLOMBIA LV del Cinaruco; 0238 SP, ID, Pgm of "Musica" pop mx (Jones 6/21)
- 4870 BENIN LVR; 2320-0000 in FR, political speeches, guitar mx and lcl mx, cntys on revolution (Brooker, Smith, Leffler) 0522 FR, M leading pol rally (Bryan)
- 4871v IRIAN JAYA RRI-Sorong; IN w/Hawaiian style mx, vocals, harmonizing 1333-1401 s/off--a"pro" says should be 4874 (Poppin 6/14)
- 4875 SOUTH AFRICA SABC; 0400-0409 EG ID, mx (Bryan, Poppin)
- 4880 VENEZUELA R Universidad; 0339-0400\* w/NA, ID after pop mx pgm (Poppin, Sherman)
- 4885 PERU R Huancavelica; 0409-0419\* in SP, Andean mx, M ancr, ID's, closing armts, NA then march song (Perdue 7/4)
- 4885 SUMATRA RRI-Bukittinggi; 1414-1430 in lang tlk, ID 1415 and 1429 as "Inilah Radio Republik Indonesia " and into chant by M 1430 (Popping 6/14)
- 4890 PAPUA NEW GUINEA NBC; 1100-1359\* EG, mx pgm, automobile ads, mx (Valko 6/7, Poppin 6/9, Lister 7/4, Bryan 6/16)
- 4892 PERU R San Juan; Watch for this one after R Centinela s/off around 0400--listed as 500 watts --DR
- 4900 VENEZUELA R Juventud; 1030 SP, LA mx, tlks, ads, ID (Tannenwald 6/18) 0400\* w/NA (Sherman 6/29)
- 4900 SULAWESI RRI-Gorontalo; 1329-1400 ID 1359 by W ancr mentioned Gorontalo and into mx; answering musical requests afterwards (Poppin 6/18)

The usual thanks go to those who took the time to send in their logs. I trust the new abbreviations were not too troublesome. I can envision only a few changes, if any at all. The new abbreviations for EE (EG), SS (SP), and FF (FR) seem a bit better, but each to his/her own. I would much rather type the full language names out rather than add more abbreviations to an already over-abbreviated hobby, for example Swahili in the new form would be SH, or Quechua QC.....

Remember the Feature Spot for September and have a good rest of the summer.....

Dan.

FRENEX COVER CONTEST: A winner has finally been decided, the new cover design being used for the first time this month, was drawn by Wesley Thompson of Huntington, PA. We wish to thank Wesley for his contribution and I thought it would be appropriate to use a drawing that Wesley submitted for the cover design this month.

REMINDER: Greg Havenhorst's deadline for contributions to the Log Report Sections of FRENEX for October must be received by SEPTEMBER 5.

HELPING HAND: Handler Enterprises has moved back to Deerfield, new address is: Handler Enterprises, P.O. BOX 253, Deerfield, IL 60015.

HELPING HAND: For Sale, I am planning an upgrade to a Drake SPR4 so I am selling my 4 month old FRG-7. It is in mint condition and was modified when purchased (by Gilfer Assoc.) with a special filter which increases the selectivity of the receiver. Price \$230 (you pay UPS shipping costs and insurance). Contact Bob Ingoglia, 37 Kansas Street, Hackensack, NJ 07601. Phone 201-546-4754.

# log report section



Sam Barto 245 Cherry Ave. Apt. J-11 Watertown, Conn. 06795 USA.

- 4904.5 CHAD RNT; 0428-0448 in FF w/ Af. mx & vocals, IS, anthem, several ID's, good in QRN (Sherman 6/29, Bryan 7/3). (Name?).
- 4908 KHMER Demo. Cambodian Radio; 1303 in lang. w/ W ancr, chants, vocals
- 4910 ECUADOR Emis. Gran Colombia; 0340 in SS w/ LA mx, freq. ID's (Pinchuk)
- 4915 GHANA GBC; 0600 in EE w/ IS, ID, TC, nx (Bryan 6/12).
- 4915v KENYA VOK; \*0258-0435 in Swahili w/ hymns, choral mx, ID, Af. mx, nx at 0400, 51 sec. time pips (Sherman 6/30, Pineault 6/27, Perdue, Overcamp).
- 4920 AUSTRALIA VLM4 Brisbane; 1400\* in EE w/ ID, IS (Poppin).
- 4935 PERU R. Tropical; 0408\* in SS w/ "Buenos Nochas" lullaby, closing ancts, ID, NA (Perdue 7/4).
- 4935 UNID. 2330-0030 in SS or PP w/ occasional electronic sound effects, much LA mx (Perdue 7/4).
- 4940 IVORY COAST RTVI; 2305-0000\* in FF w/ tlks, Af. mx, ID, NA (Brooker, Yajko, Smith). 0605 in FF w/ nx, ID (Bryan). Perdue.
- 4940 VENEZUELA R. Yaracuy; 0035-0358\* in SS w/ ads, ID, vocals (Tannenwald,
- 4945 COLOMBIA R. Colosal; 0401 in SS w/ ads, ID, LA mx, pop mx (Howarth).
- 4950 SARAWAK RMS; 1400 in EE w/ ID, nx (Lister 7/4).
- 4960 VENEZUELA R. Sucre; 0024 in SS w/ LA vocals, ID (Yajko 7/4). Bryan).
- 4965 COLOMBIA R. Santa Fe; 0418-0615 in SS w/ ID, vocals, LA mx (Alexander,
- 4970 SABAH RM; 1220 in Bahasa Malaysia w/ pop mx, DJ (Bryan 6/19).
- 4970 VENEZUELA R. Rumbos; 0313-0423 in SS w/ gong, ID, vocals, LA mx, MoR mx, pop mx, tlks (Howarth, Bryan). 0620-0635 w/ LA & pop mx, ads, TC (Brooker).
- 4975 COLOMBIA Ondas del Ortegua; 1004 in SS w/ ID and "Somos popular, somos profesionales, somos Ondas del Ortegua" Bad UTE (Jones 6/14).
- 4980 GHANA GBC; 2235 in EE w/ church mx, ID (Earhart). (Bryan).
- 4980 SWAZILAND SCR; 0510 in lang. w/ pop mx, ads, mentioned Transvaal twice
- 4980 VENEZUELA Ecos del Torbes; 0115-0331 in SS w/ LA mx, ID, slogans, tlks, cmntry (Howarth, Tannenwald, Valko).
- 4985 BRASIL R. Brasil Central; 0020 in PP w/ ads, pop mx, ballads (Alexander) 0428 w/ local pop mx (Bryan) 0600-0820 w/ TC, ID, vocals (Tannenwald,
- 4990 NIGERIA NBC Lagos; \*0432-0530 in EE w/ drum IS, ID, TC, (Brooker). pop mx, ads, cmntry, rel. pgm. (Sherman, Bryan, Brooker, Howarth) 2245 in EE w/ local Af. mx (Alexander). (Luce, Howarth).
- 4990 VENEZUELA R. Barquisimeto; 0145-0343 in SS w/ LA mx, ID, tlks, ballads
- 5010 COLOMBIA R. Surcolombiana; 0327 in SS w/ LA mx, freq. ID's, (Pinchuk). \*0930 in SS w/ ID, ads, pop mx, IS, Caracol station (Jones 6/14).
- 5020 NIGER ORTN; 0406-0600 in FF/lang. w/ local Af. mx, pop soul mx, ID, tlks, fair level (Alexander, Pinchuk).
- 5020 SOLOMONS SIBS; 0835-0930 in EE w/ Amer. folk tunes, native mx, local messages (Smith 7/8) 1103 in EE w/ rock, C&W mx, ID, GSTQ to 1134\* (Sherman).
- 5030 VENEZUELA R. Continente; 0155 in SS w/ ID, vocals (Luce) 0351-0520 w/ LA mx, ID, TC, pop mx (Howarth, Brooker, Poppin). 1015 in SS w/ ID, LA vocals (Tannenwald).
- 5045 BRASIL R. Cultura do Para; 0205-0220 in PP w/ samba mx, ID (Sapoznikow)
- 5047 TOGO RT; 0559-0615 in FF w/ vocals, class. mx, ID (Bryan, Pinchuk).
- 5052 SINGAPORE R.S.; 1230 in EE w/ pop mx, ID (Bryan 6/19).
- 5060 ECUADOR R. Nac. Progreso; 0439 in SS w/ Andean mx, ID (Bryan).
- 5075 COLOMBIA R. Sutatenza; 0200-0300 in SS w/ LA mx, nx, ID (Dickson).
- 5095 COLOMBIA R. Sutatenza; 0128-0151 in SS w/ tlks, LA mx (Valko).
- 5930 CZECHOSLOVAKIA RP; \*2230 in PP, \*0100 in EE w/ nx, ID (Alexander, Smith).
- 5955 GUATEMALA R. Cultura; 0830\* in EE w/ ID (Willis).
- 5960 ANTIGUA DW; 0535-0550\* in EE w/ ID, IS, nx (Smallwood).
- 5960 CANADA RCI; 2200-0200 in EE, PP, SS, FF w/ nx, ID, cmntry (Smallwood). 0306-0330 in EE w/ IS, ID, nx, sports (Berezowski).
- 5960 FED. REP. GERMANY DW; 0530 in EE w/ ID, nx, mx (Woltman).
- 5960 GREECE VOG; 0100 in Greek w/ IS, NA, ID, nx. 0115 w/ nx in EE, 0130-0145 w/ nx in FF (Smallwood).
- 5962 COLOMBIA LV de los Centauros; 0928 in SS w/ ID, freq. as 5960, TC's, (Jones 6/14). 1050 in SS w/ ID, LA mx (Tannenwald).
- 5965 BRASIL R. Guaiba; 2315 in PP w/ sports, fast PP tlks (Bishop).

- 5965 ENGLAND BBC; 0200\* in Hindi w/ ID(Smallwood).  
 5970 PERU R. El Sol; 0350-0431 in SS w/ mx, jingles, ID's, pop mx, (Poppin, Howard). \*1022.5 and \*1026 on two different days w/ ID, local mx (Jones 7/7).  
 5975 ENGLAND BBC; 0200-0245 in EE w/ world nx, ID, cmntry, press tlks, accordion mx (Thompson).  
 5980 PERU R. Panamerica; 0607 in SS w/ ID (Willis 6/13).  
 5980 PHILIPPINES FEBC; 1100-1200 in JJ w/ rel. pgm. (Smallwood 5/28).  
 5980 USA KGEB; 1000 in EE w/ ID (Smallwood). 1125-1200 in EE/JJ w/ ID, mx, rel. pgm. (Brown)... Sounds like the above FEBC... both have JJ at 1100? 1030 w/ "Golden Gate Show" & ID (Hascall).  
 5985 USA WYFR; 0200 in SS w/ rel. pgm., IS, ID (Smallwood).  
 5990 ROMANIA RB; \*0130 in EE w/ ID, nx, "Radio Newsreel" pgm (Smith).  
 5995 AUSTRALIA RA; 0830 in EE w/ pop mx, ID (Smith). 1330-1400 in EE w/ nx, ID, pop mx, (Berezowski).  
 5995 VATICAN RV; 0115 in FF w/ ID, rel. pgm (Smith). (Jones 6/15)  
 6000 COLOMBIA R. Super de Medellin; 0813 in SS w/ ID, TC, Argentine mx  
 6005 CANADA CFCX; 2215 in EE w/ ID, pop mx (Swanson) 1415-1715 in EE w/ ID, nx, baseball, TC (Ravenhorst, Grove).  
 6010 ANTIGUA DW; \*0130-0150\* in EE w/ ID, nx (Wilson 6/20). Also reported by Smith and Berezowski in same time slot in EE. From FRG?  
 6010 PHILIPPINES VOA; 1100 in EE w/ ID, nx (Zilmer).  
 6010 USA VOA (Site?); 0400 in EE w/ "Breakfast Show" (Ashley).  
 6015 ETHIOPIA Voice of Revolutionary Ethiopia; 1530 in EE w/ a pgm. on their severe annoyance at Arab support for the Eritrean Liberation movement. Speeches are worth listening to. // 7180 (Willis).  
 6015 NORWAY RN; 2205 in EE w/ "Norway This Week" pgm., ID (Gionet). ger).  
 6020 PERU R. Victoria; 1104-1134 in SS w/ Andean ballads, M ancr, ID (Krue-  
 6025 PORTUGAL RP; 0155 in PP w/ tlks (Bryan) 0505 in EE w/ cmntry, NX (Wolt-  
 6035 BOLIVIA R. Panamerica; 1102 in SS w/ ID, pop mx, ads (Jones). nan).  
 6045 PERU R. Santa Rosa; 0330-0348\* in SS w/ jingles, ID, light mx (Howard). 1052 in SS w/ rel. pgm., ID, rel. mx (Jones 6/25).  
 6045 URUGUAY RDP. del Uruguay; 1022 in SS w/ ID, TC, possible nx, coms, ancd. as "El Espectador", mentioned Montevideo. ancd. R. Sport w/ sports pgms. (Jones 6/25).  
 6050 ECUADOR HCJB; 0900-1030 in Quechua w/ rel. pgm (Smallwood).  
 6060 ARGENTINA RN; \*0800-1030 in SS w/ ID, nx, (Jones, Willis). frey).  
 6060 CUBA RHI; 0231 in Creole w/ IS, ID, cmntry (Self) 2200 in SS w/ ID (God-  
 6065 CANADA CBC-NS; 1218 in EE w/ pop mx, TC, ID (Name?).  
 6065 COLOMBIA R. Super; \*0715-0820\* (?) in SS w/ many ID's, LA mx (Myers).  
 6065 SPAIN RTVE; 0145 in EE w/ pgm. for hams (Zilmer) 0351 in EE w/ ID (Fil-  
 6067 COLOMBIA R. Super; 0440 in SS w/ ID by a W, LA mx (Sherman 6/29). ka).  
 6069 UNID; 0442 w/ het from CFRX. Not Super on 6067 (Sherman).  
 6070 CANADA CFRX; 1204 in EE w/ MoR mx, ID (Howarth) 0211 w/ sports (Self).  
 6075 COLOMBIA R. Sutaterza; 1540 in SS w/ ads, ID, tlks. Odd reception at this time others noted on 6000, 6068, 6150, 6160 (Krueger).  
 6080 SPAIN RTVE; 0100-0210 in EE w/ ID, nx, "Letterbox" (Birkhaeuser, Smith)  
 6090 LUXEMBOURG RL; 0029-0155 in EE w/ pop mx, ID, rock mx, DJ (Howarth, Dick-  
 6090 NIGERIA R. Kaduna; 0513 in EE w/ drum IS, ID, weird son, Pinchuk). songs w/ drums and strings (Brookwell).  
 6095 ECUADOR HCJB; 0500 in EE w/ ID & rel. songs (Smallwood). mer, Gionet).  
 6095 POLAND Polish Radio; 0200 in EE // 15120, 11815, 7270 w/ mx pgm, ID (Zil-  
 6100 MALTA DW; \*0130-0150\* in EE w/ IS, ID, orch. mx, cmntry (Thompson, Self, Inhat, Wilson) 0200 in GG w/ IS, ID (Bryan).  
 6105 MEXICO Su Pantera; 1630-1645 in SS w/ ads, ID, chatter, slow LA ballads, w/ Panther growls (Perdue) 1225 in SS w/ coms, fiesta mx (Jones).  
 6105 NEW ZEALAND RNZ; 0548 in EE w/ ID, nx (Poppin) 1018 in EE w/ interview pgm and ID (Yajko).  
 6110 ENGLAND BBC; 0250 in EE w/ tlk, ID, mx (Smith).  
 6115 COLOMBIA LV del Llano; 0301-0330 in SS w/ ID, LA, mx, US pop mx, (Howard) \*0903 in SS w/ calls, mx, freq., NA, LA pop mx (Jones).  
 6115 MEXICO R. Univ. de Sonora; 1835 in SS w/ class. mx (Bryan) 2145 in SS w/ ID, class. mx (Thompson) 0220-0301\* in SS w/ US pop mx, ID (Howard).  
 6120 ARGENTINA R. El Mundo; 0400-0420 in SS w/ ID, rel. mx (Howard) 0901 in SS w/ call, ID, freq, sign on? (Jones).  
 6120 VENEZUELA R. Angostura; 0937 in SS w/ ID, local mx, relay of Rumbos nx, sign on 0930@ (Jones).  
 6121 COLOMBIA R. Super; 0750 in SS w/ ID, LA mx (Willis 6/21).  
 6130 CANADA CHNX Halifax; 0604 in EE w/ nx, sports, ID. (Ravenhorst). 2051 in EE w/ mx, ads, ID, wx (Sillings).  
 6130 ECUADOR HCJB; 0100 in EE w/ ID, rel. pgm. (Smith).

- 6135 SOUTH KOREA; RK Suwon; 1318 in JJ w/ KK lang. lessons(Bryan 6/17).  
 6135 SWITZERLAND SBC; \*0130-0215 in EE w/ ID,nx,tlks,folk mx(Smith,Luce,  
 6135 TAHITI RT; 0515-0535 in Tahitian w/ IS,ID,mx(Delap). Birkhaeuser).  
 6145 FED. REP. GERMANY DW; 0230 in GG w/ opera & waltzes(Bryan).  
 6150 ENGLAND BBC; \*2343-2350 in Thai w/ IS,ID(Earhart).  
 6155 USA WYFR; 0100-0245 in EE w/ ID,Bible study pgm.,cmntry,nx,mx,health  
 Tips(Smallwood,Swanson,Birkhaeuser,Berezowski).  
 6165 MEXICO LV de America Latina; 1138 in SS w/ TV show theme mx,ID and  
 many ads(Jones). (Smith,Birkhaeuser).  
 6165 NETHERLANDS RN; 0100-0215 in EE w/ "His & Hers" pgm and "DX Jukebox"  
 6175 ANTIGUA BBC; 0418-0437 in EE w/ nx,ID,press review(Lister 6/14).  
 6175 COSTA RICA Faro del Caribe; 1146 in SS w/ ID, M anc., rel and lite  
 man).  
 6180v GUATEMALA RN; 1105-1225 in SS w/ ID,marimba mx,TC,(Sapoznikow,Sher-  
 6180 VENEZUELA R. Turismo; 0935 in SS w/ ID,comls,local mx(Jones).  
 6195 MALAYSIA BBC; 1110 in EE w/ nx,ID(Bryan).  
 6200 ALBANIA RT; 0130-0200 in EE w/ IS,ID,nx(Wineland,Zilmer).

That's it for another month gang. I would like to take this opportunity and make use of this page space by stating that the Connecticut area DXers is having their second annual picnic at Black Rock State Park in Watertown starting around 10 AM on one of the following dates: August 21st or 28th. or on Sept. 11th. If you can attend, please inform me of the date or dates on which you will be able to attend. The date selected by the most number of interested people will be the date of the outing. You will be notified by August 10th of the exact date. Last year we had over 30 people attend the outing. We hope to double that figure this year. If you can attend please notify me immediately...Sam.



# DX HOTLINE

TOM ALLEMAN, EDITOR  
 625 WEST 43rd TERRACE  
 KANSAS CITY, MO 64111.

LAST MINUTE TIPS, 816-931-5943, 2330-0400 GMT

As mentioned of the HQ page, the DX HOTLINE will return starting with the Mid-August issue, the deadline will be around August 15. The deadline for the September FRENDX DXH will be August, 22, 1977. Watch Tom's column for further deadlines. Let's flood Tom with good DX tips to get the Hotline on the road again!

Mid Month DX HOTLINE mailings: the envelopes used for the Mid-August DXH were addressed in March and do not reflect updated DXH subscriptions, except for those who have subscribed since March. If you think you should receive a Mid-Month DXH and do not receive the August edition by the end of the month please let HQ know. I am in the process of retyping all DXH address cards to reflect a 5 month extension of all subscriptions. These new cards will be used for the Mid-Sept DXH. Please check your cards for any address typos and let us know of corrections. For those of you not familiar with the address methods used the number besides you name is the month when your last issue is mailed out before your subscription runs out (same for FRENDX). It would be helpful if you would renew as early as possible so that there is no delay in sending out your next issue of FRENDX or DXH.

# log report section **C**

REMEMBER! ALL REPORTS TO THE LOG REPORT SECTIONS SHOULD BE SENT TO THE DISTRIBUTION EDITOR: GREG RAVENHORST, RURAL ROUTE, HOLLANDALE, MINNESOTA 56045

**NOTICE:** The NASWA Log Report Editors have felt for some time that the current language abbreviations are too ambiguous. Beginning this month, a new set of language abbreviations are being used. A list of the new abbreviations can be found on page LRC-5.

- 6205 LIBYAN WATERS Mebo II; 2221-2303\* Pop and Rock mx, EG ID by male announcer. Also announced 773 KHZ & 90 MHZ. Good level but heavy interference. (Osterman 7/5).
- 7070.6 LAOS Lao National Radio; 1300 FR and at 1330 EG to s/off after brass band music. Good level. (Coiser & Willis 7/3).
- 7130 PORTUGAL Deutschland Funk; \*0530 Czech with German ID and then mx in Czech (Bishop).
- 7150 USSR R. Kiev; \*0030-0100\* English nx, "Ukraine & the World," etc. (Fraser 6/16).
- 7158 KOREA (SOUTH) R. Korea; 1100-1500 Noted here well with Asian language pgm (Willis).
- 7170 NEW CALEDONIA R. Noumea; \*0600-0715 Pop mx & FR talk//11710 (Gionet,Trask,Bryan).
- 7185 USSR R. Moscow; 0040 SP with opera mx (Smith). -Wade adds that this transmitter might be located in the Georgian Republic.-
- 7185 SOUTH AFRICA Springbok; 0530\* English & Afrikaans talk and ads. (Streveler,Wilson).
- 7195 CYPRUS Cyprus Broadcasting Corp; 2210-2230 Greek news with mentions of Makarias, two songs and off. (Gionet 6/19).
- 7203 KOREA (NORTH) R. Pyongyang; 1240 English talk on Socialism (Grenier 7/5).
- 7215 BRUNEI R. TV Brunei; 1032-1100 CH tlk, music "Times of your Life". Time pips at 1045 with an ID, short interval signal at 1100 into a different language. (Sherman, Gavaras). 1200 IS into English Drama program. (Bryan).
- 7215 HUNGARY R. Budapest; \*2130 Interval Signal, English ID, News. (Alexander 7/1).
- 7215 IVORY COAST R. Ivory Coast; 0600 s/on with National Anthem, French news (Brooker).
- 7235 YEMEN ARAB REPUBLIC R. Sana; 0336 Talk in lang, chants by a man. HAM QRM (Pinchuk).
- 7265 ZAIRE La Voix du Zaire; 0540 FR with local mx & U.S. Disco mx. ID at 0600 in French with military music and yells. (Delap 6/15).
- 7265 GERMANY (WEST) Sudwestfunk; 0407 German with light pleasant music (Pinchuk 6/21).
- 7270 POLAND Polish Radio; 0200 English Program Notes//6095,9525,11815 (Yajko 7/5).
- 7275 ITALY RAI; 0416 Interval Signal, Italian Identification & News (Pinchuk 6/21).
- 7275 TUNISIA RTVT; 0406 Arabic with chanting & drum and flute music. (Pinchuk 6/20).
- 7280 INDIA AIR; 1430 English with ID, sports, nx into lang at 1435 (Bryan 6/19).
- 7280 LIBERIA WOA; 0424 EG cmntry on U.S. and Libyan relations (Bryan 6/14).
- 7285 PORTUGAL DW; \*0415 IS, Russian(?) ID, nx. Bulgarian is listed, but Russian is suspected. Can anyone confirm? (Brown 7/4). -I have West Germany listed for this frequency as transmitter location. (editor)-
- 7285 SOUTH AFRICA SABC; 0535-0612 English talk with very good reception(Streveler,Wilson).
- 7295 MALAYSIA VOM; 1128 English cmntry about Malaysia's goals (Streveler 7/3).
- 7300 ALBANIA R. Tirana; 0108 Spanish talking (Self 7/8). 0230 EG w/IS, IS, News of the Day, talk about communism, etc. (Woltman 7/4, Bryan 6/15).
- 7345 CZECHOSLOVAKIA R. Prague; \*0100-0158\* English w/ID, folk music//5930, 9540, 9630 & 11990 (Brown 6/23, Self 7/5). 0240 Spanish news, cmntry and ID (Bryan 6/15). 0355 English talk, music, etc. (Dickson 5/18).
- 7390 USSR R. Moscow; 2130-2215 EG w/Moscow Mailbag, ID, news, cmntry (Craig 5/18).
- 7412.7 INDIA AIR; 1530 English news with a fine level. (Willis 6/20).
- 7500 AUSTRALIA Time Station VNG; 0940 time pips. 0945 English ID. (Self 6/29).
- 7530 CHINA R. Peking; Home Service programs has been noted at 1300 and 1400 Irregularly 77520. Mid June was best time. (Willis).
- 7551 KOREA (SOUTH) R. Korea; 1615 with a Korean program. (Willis 6/10).
- 7600 ECUADOR HD210A Time Station; Thanks to tip from Roger Stubbe on HCJB, am hearing every night this new time signal station announcing as HD210A, which stands for Instituto Oceanografico de la Armada, I think. Has an atomic clock, and thus very accurate timesignals indistinguishable on my equipment from those of WWV. However, a far cry from WWV on frequency accuracy, as measured June 18th at 0300 on 7600.043; a good 43 Hz high. Has Spanish time announcements every minute; 29th second skipped; full ID at minute 59 and announces schedule as 0500-1700 on 3810; 1700-1800 on 5000; and 1800-0500 on 7600 (Hauser). Good signal w/SP announcements on minute to 0457s s/off and reappeared on 3810 a few seconds later. (Ferguson).

- 7600 ECUADOR HD210A Time Station (Continuation); 0241 Time pips and SP ID at 0300 (Delap 6/26). 0430 time pips with time announcements in SP (Smith 7/8).
- 9022 IRAN V01; 2005 local music with talk in an unidentified lang. (Smith 5/30). -I have English listed in this time slot (editor)-
- 9420nf KOREA (NORTH) R. Pyongyang; 1000-1030 EG news, talk, commentary. Good. (Dickson).
- 9435 ISRAEL IBA; 2250 English news and talking (Luce 6/11).
- 9475 EGYPT R. Cairo; 0145 SP talk with Egyptian music (Bryan 6/15). 0200+ EG with Cairo calling America, nx, mx, etc. (Mihajlov 6/28, Grenier 6/30, Yajko 7/2). 2136 AR with Arabic singing by a female (Leffler 6/11).
- 9480 ALBANIA R. Tirana; 2030-2045+ English w/Review of Editorials, tlk, ID (Hayes 7/8).
- 9490 USSR R. Moscow; 2145 English news, talk and commentary (Leffler 6/11).
- 9500 USSR R. Moscow; 0255 English talk and music (T. Smith 6/30).
- 9505 JAPAN R. Japan; \*0700-s/on, EG Nx, cmntry (Myers 6/19). 0900 EG nx (Bishop 6/15). 1000 EG ID, news into Japanese at 1015 (Smallwood 5/28). 1700 EG news, cmntry; 1715 Japanese pgm (Altman 7/1). 1800 EG talk, ID, nx (Yajko 7/4, Alexander 7/1).
- 9500 GERMANY (EAST) RRI; 0210 Spanish program with poor signal (Delap 6/27).
- 9505 GERMANY (WEST) R. Free Europe; \*0357 IS, ID by a female "Took E Radio Svobodna Europa," into nx. Jamming. (Roberts 6/7).
- 9510 CANADA BEC Relay; 2150-2230 EG World News, etc. (Thompson 7/4). 2300-2330 EG Identification, World News, cmntry, etc. (Smallwood 6/7).
- 9515 AUSTRALIA R. Australia (Shepparton); 0800 EG news & pop mx. (Grenier 6/12). 1200-1300 EG ID, World nx, Business Report, etc. (Smallwood 5/28).
- 9515 TURKEY VOT; 2200-2240 English with DX Corner, This Week in Ankara, American Rock music, etc. (Mihajlov 6/28, Smallwood 6/6, Alexander 6/13, Crovo 6/17).
- 9515 MALAYSIA VOM; 1533 lang with ID, guitar mx, etc. (Poppin 6/14).
- 9520 PAPUA NEW GUINEA NBC; 0751 EG w/pop mx, Anglican church pgm, job ads. (Osterman 6/18)
- 9520 USA KGEI; \*0320-0432\* SP w/music, news, ID's, One moments Reflection pgm. (Myers).
- 9525 CUBA RHC; \*0630 s/on, EG ID, National Anthem, nx, tlk on Castro's Angolan Family (Myers). 2200 with Spanish program, ID, news (Smallwood 6/7).
- 9525 INDIA AIR; 2030-2140 EG cmntry on India's non-alignment policy (Earhart, Brooker).
- 9525 KOREA (SOUTH) R. Korea; 1020 EG cmntry, mx into SP at 1030. (C. Sherman 7/1).
- 9525 POLAND Polish Radio; 0205 English news with heavy interference (Leffler 6/12).
- 9525 USA WYFR; 0100 SP w/IS, ID, Religious programs (Smallwood 6/7).
- 9530nf BULGARIA R. Sofia; \*0430 English w/IS, ID, sked, news (Zilmer 7/3, Self 6/25).
- 9530 ENGLAND RCI Relay; 2030 English news, mailbag, music, etc. (Gionet 6/19).
- 9530 USSR R. Moscow; 0249 English commentary and music. Good signal (T. Smith 6/30).
- 9530 USA VOA (Greenville); 0600 English news Safari (Lister 6/16).
- 9535 CANADA RCI; 0100 EG ID, nx, Weekend Magazine, DX Digest (Smallwood 6/4). 0300 English talk about Gordon Lightfoot (Grenier 6/29).
- 9536 ANGOLA R. Nacional; Luanda noted here, excellent level too//7244 (watch Algiers there) at 0500 with African news and talks. (Willis 6/17).
- 9540 AUSTRALIA R. Australia (Shepparton); 0800 EG ID (Myers). 1030 EE nx (Craig).
- 9540 CZECHOSLOVAKIA R. Prague; 0107 EG nx, cmntry (Filka). 2336 SP nx, tlk (Leffler).
- 9545 AUSTRALIA R. Australia; 1200 English //9540 (G. Sherman 7/1).
- 9545 GERMANY (WEST) DW; 2300 SP news, commentary, etc. (Smallwood 6/4, Leffler 6/11).
- 9545 SOLOMON ISLANDS SIBS; 0645 EG tlk on oil, nx from R. Australia, Ads (Osterman 6/7).
- 9550 CUBA RHC; 1200 Spanish news read by a man (Valko 6/19)
- 9555 USA KGEI; \*0700-0800\* EG nx, mx & "The Space Story Today." (Berezowski 6/18). -This station has a DX program called "DX San Francisco" at 0710 on Monday Mornings (GMT) ed-
- 9560 JORDAN HKBS; 1212 AR w/Arabic style mx (Pinchuk) -I don't have them listed for this frequency for that time. How early are they using 9560 kHz now? (editor).
- 9560 ANTIGUA BEC; 2200-0015 PT ID, news & features (Smallwood 6/7).
- 9560 BULGARIA R. Sofia; 0130 SP ID, nx, cmntry (Smallwood). 0430 EG nx, mailbag (Smith).
- 9560 ECUADOR HCJB; 0030-0700 EG Religious pgms, DX Party Line, etc. (Smallwood, Birkhauser)
- 9560 USSR R. Rodins; 0200 Russian; noted here at fine level with an identification (Willis).
- 9565v CHILE R. Nacional de Chile; 0125 English ID's, talk by man & woman, IS. (Bryan 6/16)
- 9565 GERMANY (WEST) DW; 0130 EG nx, cmntry (Fraser, Smallwood). -I have Malta listed, but could easily now be one of the Caribbean Relays. Does anyone know for sure? (editor)-
- 9565 USA VOA (Delano); 1300 English ID, news, etc. 1430 Indonesian pgm. (Smallwood 6/4).
- 9570 ROMANIA R. Bucharest; 0000 SP w/IS & ID (Luce). 0145+ EG nx, cmntry (Crovo, Pinchuk). 0235 EG Political Story (W. Smith). 2342 Romanian tlk & music (Leffler).
- 9575 ITALY RAI; 0100 EG nx into French at 0120. (Self, Innat, Mihajlov).
- 9580 ASCENSION ISLAND BEC; \*2000 EG nx news pgm (Wilson). 2300 EG ID, World nx (Smallwood).
- 9580 AUSTRALIA R. Australia (Melbourne); \*1100-1234 English world news, talk about new hearing aid based on radio waves to the brain (Earhart, Craig, Woltman, Smallwood, Innat, Phillipines, Howarth).
- 9580 PHILIPPINES WOP; 1515 EG cmntry, music, etc. (Godfrey 6/8).
- 9580 USA VOA (Greenville); 1010-1100\* Spanish with news (Fraser 6/15).
- 9585nf INDONESIA RRI (Jakarta); Now back here at 0955 w/Indonesian ID & address. Good. (Willis)
- 9585 JAPAN R. Japan; 1300 EG news; Japanese pgm at 1315 (Hayes). 1800 English ID, nx, cmntry. Japanese ID & news at 1815. (Smallwood, Brooker).

- 9585 HUNGARY R. Budapest; 0323 English sport news into lang at 0330 (Filka 7/5).  
 9585 SOMALIA R. Mogadishu; 1840-2145\* AR & Somali talk with special program for  
 Djibouti independence (Krueger 6/26, Pinchuk 6/6, Perdue 6/26). Wilson.  
 9585 SOUTH AFRICA RSA; 2100 EG ID (Smallwood, Mihajlov). 2230 EG ID (Smallwood, Swanson).  
 9590 MONTSERAT DW; \*0130-0150\* EG News, cmntry (Zilmer, Luce, Bryan, Bishop). 1100 Spanish  
 talk & music (Zilmer). 2300 SP w/Caribbean Relay ID, news, etc. (Smallwood).  
 9595 JAPAN NSB; 1315 Japanese talk (Hayes). 1605 English talk & ads, JP music (Lister).  
 9600 USSR R. Rodina; 2000 Russian w/IS, ID, news, etc. (Smallwood 6/7).  
 9600 USSR R. Moscow; 0035 EG w/Moscow Mailbag (Filka). 0120 EG Mailbag pgm (Mihajlov).  
 9605 CANADA DW Relay; 0230 IS, German ID, news & features (Smallwood 6/2).  
 9605 GERMANY (WEST) DW; 0130 English w/news. Sign/off at 0150. R. Moscow QRM! (Mihajlov).  
 9605 JAPAN R. Japan; 1830 English news read by a man. Fair signal (Osterman 7/3).  
 9605 VATICAN STATE Vatican Radio; 0030 SP w/IS of Bells, ID, nx, etc. (Smallwood). \*0100-  
 0115\* EG with religious news & cmntry (Crovo, Bryan, Mihajlov).  
 9610 AUSTRALIA VLW9 (Perth); 1100 EG nx (Smallwood). 1410 EG program (Howarth, Hayes).  
 9610 USSR R. Moscow; 0200 Spanish identification, news and reports (Mihajlov).  
 9615 USA KGEI; 1100 EG w/Golden Gate to Friendship Program (Smallwood 5/28).  
 9620 ECUADOR HCJB; 0230 Russian religious programs. 0400 Romanian pgm (Smallwood 5/28)  
 9620 UNITED ARAB EMIRATES V. of United Arab Emirates; 2041-2055 Arabic. After reading  
 Bill Whitacre's report in the TDxN, I decided to give it a try. Instrumental music  
 with talking by a female. No ID heard as heavy R. Belgrade and ORF interference  
 at 2055. Very tentative!! Poor signal. (Gavaras 6/26).  
 9620 YUGOSLAVIA R. Belgrade; 0128 SP talk & brief mx (Bryan). \*2200-2212\* English news &  
 talk about Yugoslavia (Mihajlov, Earhart, Alexander, Dickson, Smallwood, Pinchuk).  
 9625 CANADA CBC Northern Service; 0130 EG w/concert (Smith). 0445 EG w/mx pgm (Berezowski).  
 1100 EG ID & pop music (Smallwood, Howarth). 2030 EG Radio Play (Fraser). -Ian  
 McFerland announced on the DX Digest that the CBCNS will no longer send out QSL's (ed)-  
 9630 SPAIN RTVE; 2145-0018\* SP tlk & mx (Brown, Bryan, Smallwood). 0630 SP tlk (Bishop).  
 9635 SINGAPORE R. Singapore; 1335 Chinese w/ID, beeps, more ID's, chorus mx (Poppin 6/23).  
 9635 UNIDENTIFIED; 1150 Chinese talk by woman. Fair w/Het (G. Sherman 7/1) -Singapore/?-  
 9640 KOREA (SOUTH) R. Korea; 1558 EG nx (Thompson). 1800 EG ID (Smallwood). 2305 EG (Trask).  
 9640 USA VOA (Greenville); 0000 IS, EG ID, World News, Living Earth, etc. (Smallwood).  
 9640 USSR R. Rodina; \*0200 w/Russian pgm/9786, 9590, 9560, 7420, 7350 & 7380 (Willis 6/16).  
 9650 GERMANY (EAST) RBI; 0345 EG talk about people of South Africa (Glonet, Howarth).  
 9650 UNIDENTIFIED; 1337 EG & Language w/music (cha cha type), Low temple Bell IS. Lady  
 in English gave frequency, said goodbye, chorus to 1426 s/off. (Poppin 6/16).  
 9655 CUBA RHC; 1500 SP w/IS, ID, nx/9550, 11760 & 11960 (Smallwood 6/1).  
 9655 COLOMBIA R. Nacional; 1157 SP ID (Valko). 2200 SP ID, talk/15328 (Zilmer).  
 9655 THAILAND R. Thailand; 1348 Malay talking by a female (Bryan 7/1). (Smallwood).  
 9660 VENEZUELA R. Rumbos; 0445 SP ID (Poppin, Alexander). 1119 SP ads (Earhart) 0505 SP ID  
 9666 KOREA (SOUTH) R. Korea; 1150 English news by man & woman (G. Sherman 7/1).  
 9760 USA VOA (Greenville); 2130 EG Identification into Portugese program (Smallwood 6/1).  
 9680 AUSTRALIA VLH9 (Melbourne); 0823 EG w/pop mx. Time Checks, etc. (Osterman 7/1).  
 9685 CUBA RHC; 0058-0115 IS, EG ID, National Anthem, ID, news, cmntry (Smallwood, Valko).  
 9685 USSR R. Moscow; 0051 English news, cmntry (Bryan).  
 9690 ARGENTINA RAE; 0441 SP ID, Argentine music, etc. (Poppin 6/9, Bryan 6/14).  
 9690 GERMANY (WEST) DW; \*0600 EG ID into German news and music (Myers).  
 9690 ROMANIA R. Bucharest; 0130 IS, EG ID, news program (Smallwood).  
 9690 USSR R. Moscow; 0100 English news read by man (Volko 6/12). -I have 9685 listed (ed)-  
 9695 AUSTRALIA R. Australia; 1400+ English with the World News (Florian, Hayes).  
 9695 FRANCE RFI; 1700 EG Paris Calling Africa; 1800-2130 French pgm (Smallwood 5/24).  
 9695 SWEDEN R. Sweden; 0000 SF news (Luce). 0215 PT program (Leffler). 0230 EG news, cmntry  
 (Howarth, Grenier, Thompson). 2300 EG ID (Smallwood, Berezowski, Craig, Ihnat).  
 9700 GERMANY (WEST) DW; 2200 IS w/German ID and news features/ 0150 s/off. (Smallwood).  
 9700 BULGARIA R. Moscow Relay; 0220 EG talk about Jews & Dissidents in USSR (Leffler 6/12)  
 9700 BULGARIA R. Sofia; 1930 English ID, frequencies, news, cmntry (Smallwood 6/4).  
 9700 USA AFRTS (Dixon); 0900 EG w/CBS News Interview, ID. (Smallwood 5/26).  
 9705 BULGARIA R. Sofia; 0001 EG News pgm (Earhart). 0055 English cmntry (Howarth).  
 9705 MEXICO R. Mexico; 1400 English identification into Spanish news (Smallwood 6/5).  
 9710 AUSTRALIA R. Australia; 1200 English w/World News, ID, Business News (Smallwood 6/9)  
 9710 ITALY RAI; 0140+ Italian news and conversation (Luce, Bryan 6/15).  
 9715 ECUADOR HCJB; 1130 EG ID into Japanese Religious pgm. 1210 Hello DX-ers in EG (Smallwood)  
 9715 FRANCE RFI; 2130 Interval Signal into program in French (Luce 6/7).  
 9715 HOLLAND R. Nederland; 2128-2250 EG ID, News, DX Juke Box (Thompson, Mihajlov, Smallwood,  
 Crovo, Swanson). 2345 Portugese identification, news, etc. (Smallwood 6/7).  
 9715 USA WYFR; 0200-0500 Spanish with religious programs (Smallwood 6/8).  
 9720 KOREA (SOUTH) R. Korea; 1800-1830 IS, EG ID, News, cmntry of Korea (Smallwood, Thompson)  
 9720 USSR R. Kiev; 0050 EG w/Interview & Ukrainian mx (Alexander, Volko, Mihajlov).  
 9720 USSR R. Moscow; 2230-2300 English identification news and cmntry (Smallwood 6/8).  
 9720 USSR R. Vilnius; 2300 EG news & cmntry (Pinchuk, Valko, Alexander, Overcamp).

- 9725 SWITZERLAND SBC; 0145 EG nx(Thompson,Luce,Smallwood,Mihajlov).0400 Italian ID(Godfrey)
- 9730 BELGIUM BRT; 0015-0045 EG News, DX pgm (Delap,Altman,Alexander,Craig,Earhart,Self, Bryan,Crovo) 2245 Spanish, ID, news, cmntry (Smallwood 6/8).
- 9730 GERMANY (EAST) RBI; 0100 EG ID, nx (Smallwood,Crovo). 0230 EG nx (Dickson). 1745 lang w/IS, mx, talk (Alexander). 1836 EG w/Very Boring news (Pinchuk)
- 9730 UGANDA UMC; 2059 English ID w/Rock & Roll music (Bryan 6/19).
- 9730 USA VOA (Dixon); 1200 English ID, New York New York, Letters from Listeners(Smallwood)
- 9735 GERMANY (WEST) DW; 2200 IS, German ID, news, etc. (Smallwood 6/8).
- 9745 UNID; 2110-2145 FF w/pop & African mx. No ID hrd (Delap) -Iraq is on at this time (ed)
- 9745 BULGARIA H. Sofia; \*2130 EG news, cmntry (Zilmer,Florian). 2330 SF news (Bryan).
- 9745 IRAQ R. Baghdad; \*1930-2020 EG Nx, cmntry (Smith,Fraser,W.Smith,Pinchuk,Smallwood).
- 9755 USA AFRTS (Bethany); 0000 EG w/VOA ID, AFRTS ID, The World Tonight (Smallwood 6/7).
- 9760 ENGLAND VOA; 1900-2200\* EG w/ID, World Report (Alexander, Wilson, Smallwood).
- 9760 GREECE VOG; 0015-0030 EG ID, nx, Greek Music (Brown, Mihajlov, Self).
- 9760 JAPAN NSB; 1529 Japanese identification, talk, orchestra mx (Thompson 7/4).
- 9760 MOROCCO VOA; 0200 English nx, Correspondents Report, etc. (Thompson 6/18).
- 9765 ASCENSION ISLANDS BBC; 2200 Portuguese pgm; 0015 into SF pgm. 0415 s/off (Smallwood).
- 9765 EQUADOR HCJB; 1230 Spanish ID and religious programs to 1630 s/off (Smallwood 6/11).
- 9765 GERMANY (WEST) DW; 2100 German ID into English pgm of News & features (Smallwood).
- 9770 AUSTRIA ORF; \*0130-0155\* EG nx, cmntry (Fraser,Bryan,Mihajlov,Howarth,Crovo,Ihnat). 0155 German ID & classical mx (W. Smith). 0335 EG nx and cmntry (Brown).
- 9770nf CYPRUS Cyprus Bc. Corp; \*2215 IS, Greek ID, nx (ex 9750,9755, etc.) (Roberts 6/25).
- 9770 GREECE VOA (Kavala); 0500 English news broadcast (Alexander 7/2).
- 9770 HAITI LVEH; 1100-1225 EG nx & Religious pgms (Crovo, Smallwood). 1700-1806 EG Mailbag pgm, Hour of Decision, Sounds of Joy, etc. (Smallwood, Pinchuk).
- 9770 NEW ZEALAND RNZ; \*1745 English program/6105 (Streveler 6/9).
- 9780 ALBANIA R. Peking; 0100 EG nx (Mihajlov,Fraser). 0300 EG ID, nx (Howarth,Thompson).
- 9790nf ALBANIA R. Tirana; 0020 Albanian tlk & mx (Earhart). 0225 Albanian tlk, mx (Leffler).
- 9790 PAKISTAN R. Pakistan; 2115-2146\* English nx, cmntry, mx//11640 (Zilmer 7/2).
- 9805 EGYPT R. Cairo; 2200 English Press Review, nx (Smallwood, Brown, Luce).
- 9810 USSR; 0633 Russian w/positive ID as "Govorit Vladivostok" at 0700 (Poppin 6/13).
- 9815 ISRAEL IBA; \*2000-2030\* EG w/Voices from Israel (Smallwood,Fraser). 2230 EG news & interview with Entebbe Hostage (Mihajlov, Earhart, Bryan, Luce).
- 9825 ENGLAND BBC; 2030 Portuguese, SF, JP, etc. (Smallwood). 0014 Burmese talk (Earhart).
- 9850 EGYPT R. Cairo; 2100 Arabic w/news & cmntry to Mid East//9475 & 11630 (Smallwood).
- 9895 HOLLAND R. Nederland; 2300 IS, Spanish ID, News, His & Hers, etc. (Smallwood 6/7).
- 9915 ENGLAND BBC; 2200 EG w/Falkland IS svc (Smallwood). 0045-0259 EG nx (Valko,Howarth).
- 9965 CHINA R. Peking; 1600 with Russian Programs. Nicely jammed too (Willis 6/20).
- 9977 KOREA (NORTH) R. Pyongyang; 1047 EG w/Program notes (Yajko). 1705 Korean talk & mx (Thompson). 2030 French program with ID's (Delap).
- 10040 VIETNAM VOV; 1000 EG news (Altman). 1557 EG ID w/V. of Vietnam pgm (Poppin).
- 11350 KOREA (NORTH) KCBS; 0615 Korean talk & mx (Trask). 1210 talk in lang w/chorus(Delap).
- 11505t CHINA R. Peking; 0730 Chinese talk with Asian music. No ID heard (Trask 6/25).
- 11535 KOREA (NORTH) R. Pyongyang; 0650 EG news (Trask). 1000 EG ID's & Boring nx (Bishop). 1100 Russian pgm. Certainly not JP as in WRTRV (Earhart,Zilmer).\*1500 KR pgm (Delap).
- 11618 BANGLADESH R. Bangladesh; 1900 English pgm with three ID's heard. (G.Sherman 6/14).
- 11620 INDIA AIR; 1051 English with political cmntry, Sub Cont. mx. Poor signal (Osterman).
- 11625 ISRAEL IBA; 2000-2300 Hebrew Home Service nx, tlk & mx (Smallwood,Earhart,Luce).
- 11630 EGYPT R. Cairo; 2000 Arabic news, talking, music, etc. (Smallwood 6/6).
- 11640 PAKISTAN R. Pakistan; 1955 Urdu nx, mx, cmntry (Leffler). 2115-2145\* EG nx, cmntry, mx, etc. (Onken,Zilmer,Pinchuk,Yajko,Self,Hayes,Earhart,Perdue,Krueger,Gavaras).
- 11644a SOMALIA R. Hargeisa; 1235-1300\* Talk in presumed Somalian, ID by man at 1249. First definite log of this for me. Signal was easily readable & free from QR. 9585 from Mogadishu was also in at this unusual hour. (Perdue 7/10). -Nice Catch Neall (ed)-
- 11645 ISRAEL IBA; 2000 EG w/Calling All Listeners; FR at 2030//9009,9425,9815,15540(Smallwood)
- 11655 ISRAEL IBA; 2000 EG nx & cmntry (Leffler,Smallwood). 2230 EG ID,nx(Fraser,Luce).
- 11700 DOMINICAN REPUBLIC R. Clarin; 1700-0143\* Spanish music and ID's with English at 2330 and Spanish again at 0000\*. (Zilmer,Wilson,Smallwood,Luce,Earhart,Roberts, Brown,Valko,Onken,Wilson,Brooker,Thompson,Sapoznikow).
- 11700 VATICAN STATE Vatican Radio; 0058-0115 IS, EG ID and Religious talks (Ihnat,Thompson). 2210 EG ID, news (Smallwood). 2300 Portuguese religious pgm to S. America (Smallwood).

## HELPING HAND:

SX-117 Receiver for sale. Covers Ham Bands only! Contact: Ben Kruegel 2805 Garland Lane, Wayzata, Minnesota 55391.

Wanted: Good recording of VTVN Saigon in English! Contact: Tom Gavaras 16920 17th Ave., Wayzata, Minnesota 55391.

For some time, the NASWA log report editors have felt that the present language abbreviations were too ambiguous and were in need of modification. The major problem with the present language abbreviations is the use of two similar letters for each language (SS, EE, PP). This method leaves no option for languages with the same first letter (Indonesian and Italian).

Beginning with this issue of FRENDX, we are switching to Hank Bennett's Newark News Radio Club language abbreviations. We urge all members to adopt to this system. Since this change is on an experimental basis, we solicit your comments. Next time you mail your DX Tips to the Distribution Editor, let us know if you like or dislike the change. The final result will be up to you!

Below is a list of the new abbreviations. This list is alphabetical by language, not by abbreviation.

LANGUAGE ABBREVIATIONS:

AP	Afghan-Persian	GM	German	QC	Quechua
AK	Afrikaans	GR	Greek	RM	Romanian
AB	Albanian	GN	Guarani	RS	Russian
AH	Amharic	GJ	Gujarati	SC	Serbo-Croatian
AR	Arabic	HA	Hausa	SN	Sinhalese
AM	Armenian	HB	Hebrew	SL	Slovene
AY	Amoy	HD	Hindi	SM	Somali
AS	Assamese	HG	Hungarian	SP	Spanish
AZ	Azerbaijani	IN	Indonesian	SH	Swahili
BL	Belorussian	IT	Italian	SW	Swedish
BN	Bengali	JP	Japanese	TZ	Tadzhik
BG	Bulgarian	KR	Korean	TG	Tagalog
BR	Burmese	KD	Kurdish	TT	Tahitian
CB	Cambodian	LD	Ladino	TM	Tamil
CN	Cantonese	LH	Lithuanian	TL	Telugu
CH	Chinese	LV	Latvian	TH	Thai
CR	Creole	MC	Macedonian	TB	Tibetan
CZ	Czech	ML	Malay	TK	Turkish
DN	Danish	MN	Mandarin	UG	Uighur
DT	Dutch	MG	Mongolian	UK	Ukrainian
EG	English	NP	Nepali	UR	Urdu
EP	Esperanto	NW	Norwegian	UZ	Uzbek
ES	Estonian	PL	Polish	VT	Vietnamese
FS	Farsi	PT	Portuguese	YD	Yiddish
FN	Finnish	PJ	Punjabi	YR	Yoruba
FR	French	PS	Pushtu	ZL	Zulu
OPTIONAL:		VN	Vernacular	XX	Unidentified language

Thanks to all of the contributors to this month's Log Report C! A special thank you goes to James Smallwood who sent in ninety reports to Log Report C this month. Yep 90!! I have a few comments. If you notice people with the same last name as your own reporting to the Log Report Sections, then include your first and last name with each report to avoid confusion.

Secondly, just a reminder that \*0300 means 0300 sign on. 0300\* means 0300 sign off. It seems that some of you who report to the Log Report Sections are still confused about that, so I hope this note will help.

On September 9th & 10th, the Minnesota DX Club is having a 24 hour DX expedition in Northfield, Minnesota. At present, over 25 DX-ers are planning on attending. If you would like to attend and DX all night, contact: Tom Gavaras 16920 17th Avenue, Wayzata, Minnesota 55391.

See you next month! 73, *Sam*

# log report section **D**

David L. Walcutt, Ed.

11701 & above

AUGUST, 1977

One of the results of the 1977 ANARC meeting was that the four LOG REPORT editors, in consultation with Alan Mayer and Greg Ravenhorst, agreed to try using the abbreviations for languages shown on the opposite page. This is a clear system which the Newark News Radio Club has been using for the past few years. The main advantage is that it avoids the ambiguities found in the current system in cases such as Portugese/Polish, Hebrew/Hungarian, Spanish/Swedish/Swahili, Italian/Indonesian, and so forth. The abbreviations are surprisingly easy to learn, especially since 90% of all loggings are in just three or four languages! There will be a little lag in this issue. This will be an experiment... Of course many other languages could easily be added to this list and there is room for further evolution. I, for one, feel, however, that one object of abbreviations is clarity, and no doubt most will want to continue writing out the names of the less common, just as we will probably write out some of the more exotic ones that are on the list if they ever do come up!

VOA Relay Sites: Up to now I have listed many VOA loggings just to get the relay site in question in print, because many people have had difficulty obtaining site info. I have found that site info is available by writing the following address and requesting the "Frequency Schedule": Voice of America, Public Information Office Rm. 2137, Washington, D.C. 20547. The new schedule for September ought to be out soon after you read this.

- 11705 AUSTRALIA RA; 1132-1145 EG, barely readable (Earhart 6/7); 1200-1230 EG, Int. Report, Business Report (Smallwood 6/11).
- 11705 FRANCE RFI; 1700-2030 EG, FR, "Paris Calling Africa" (Smallwood 6/8). I thot "PCI" at 1600-1700 -ed. 2030 FR, French-style accordion mx (Leffler 6/11); 2118-2128 FR, mostly vocal mx (Earhart 6/7).
- 11705 MONACO (t) 0424-0430 unid. lang., tlk & hymns, amnt by M at 0430: "This is Monte Carlo... program... in Armenian language...." Under RNZ, first guessed that this was Guam w/tape for Monte Carlo; maybe this explains Bishop's 6/5 (Overcamp 6/26).
- 11705 NEW ZEALAND RNZ; 0350-0655 EG, songs, nx, and mx (5 reporters).
- 11705 SWEDEN RS; 2000 SW (or SP?), ID, nx (Luce 6/7). Not scheduled -ed. 2301-2328 EG, production methods, working conditions, //9695, 6120 (Poppin 6/21, Earhart 6/8, Trask 6/19); 0238-0258 EG, nx, features and topics (Earhart 6/11, Alexander 7/2).
- 11705 USA WYFR; 1300-1400 SP, slow Bible reading in EG (Smallwood 6/5). This freq used weekend mornings only, 1300-1600, //15440, 15150 -ed.
- 11705 VATICAN VR; \*2110 EG, religious nx, poor (Zilmer 7/14); 0100 EG, cmnt on "Amazing Grace" hymn, into FR at 0115 (Mihajlov 7/3).
- 11710 NEW CALEDONIA R. Noumea; 0705-0715 FR, mx, M&W tlk (Trask 6/25).
- 11710 UK VOA-Wooferston; 1800-2200 RS w/EG ID at 1800 (Smallwood 6/8).
- 11715 SWITZERLAND SBC; 2100-2130 EG, "Dateline" (Smallwood 6/9); 0145 EG, "Dateline", nx (Luce 6/8); 0430+ EG, "Dateline", nx, skeds, mx (Woltman 6/18, Swanson 6/11, Wilson 6/24).
- 11715 VATICAN VR; \*0100 EG, ID, nx, serious QRM (Brown 6/19). Testing?
- 11720 AUSTRALIA RA; 1100-1115 EG, nx, poor (Zilmer 6/20, Earhart 6/10).
- 11720 CANADA CBC NS; 1545-1615 EG, pop mx, nx (Thompson 7/5); 2100-0000 EG, Inuit, "As It Happens" (Smallwood 6/9).
- 11725 PORTUGAL RFE; 0330 PL, tlk, fair (Zilmer 6/29).
- 11730 FRANCE RFI; \*0400 FR, IS, ID (Brown 6/6).
- 11730 GREECE VOG; 0015-0030 EG, nx to N.Am., //9760 (5 reporters); 0030-0055 FR, nx, good (Brown 6/15); 0223 EG, nx into Greek (Howarth 6/29).
- 11735 USSR R. Rodina; 1359-1410 RS, IS and vocal, fair (Earhart 7/2); R. Vilnius; 2300 EG, nx, cmnt, nx, fair (Zilmer 6/24).
- 11750 UK BBC W.S.; 2040, International Fest. of mx (Leffler 6/11).
- 11755 FINLAND RF; 2330-2356 EG, interview, FinnDI (Brown 6/20, Earhart 6/6)
- 11755 SEYCHELLES FEBA; 0307-0340 FS?, classical mx, M&W, pops (Osterman 6/29); 0305-0340 unid. lang., "What a Friend" xylo, back (Hayes 7/8).

- 11760 GREECE VOA-Kavala; 2100 EG, nx (Wilson 6/11).  
 11770 USSR RM; 2300 EG, "R. Vilnius" pgm, nx w/typical cmntry, good (George 6/27); 0000\* RS, "Mayak" pgm, exc. signal (Brown 6/20).  
 11775 SPAIN RNE; 0040-0115 SP, "Buenos Noches America" pgm (Thompson 7/5).  
 11780 KOREA N. R. Pyongyang; 0958 EG, chimes IS, ID 1000, NA, freq amnt, nx, fair (Cress 7/11); \*1000-1055\* EG, nx by W, cmnt, Korean mx, f (Onken 6/2); 1000-1100 EG, W w/nx & cmntry, mx, //9977, 11535 (C. Sherman 6/21), 1041-1050\* EG, W tlk abt N/S Korea (Osterman 6/21).  
 11789.2 INDONESIA VOI; 1400-1445 EE, nx, mx, fair to 1440 (Dickson 6/20).  
 11790 USA AFRTS via VOA-Greenville; 1800-2100 (Luce 6/7, Smallwood 6/11).  
 11800 SEYCHELLES FEBA; \*0355-0405 EG, kylo IS and ID, TC, mx, to E.Afr., fair to poor (Osterman 7/3, Walcutt 7/25).  
 11805 USA WYFR; 1600-2300\* EG, usual rel. pgm (Swanson 6/18, Smallwood 6/11).  
 11810 CHILE V. de Chile; 1059-1104 SP, nx, many ID's (Valko 6/10).  
 11810 ITALY RAI; 0250-0305 IT, into SP at 0305 (Alexander 7/2).  
 11810 SPAIN RNE; 2046 SP, critica del cine (Leffler 6/11). ex-11920? -ed.  
 11815 JAPAN NHK; \*1858 EG/JP, short opening, f/out at 1905 (Brown 6/19).  
 11815 NETH. ANTILLES TWR-Bonaire; 1100-1130 EG, "Back to the Bible" hour, hymns, ID, bells (Streveler 7/3, Mihajlov 7/6).  
 11815 POLAND Polish R., 0200-0230 EG to N.Am. (6 reporters); 0300-0330 EG, also to N.Am., into PL at 0230 (Smallwood 6/8, Bryan 6/15).  
 11825 AUSTRALIA RA; 1150-1205 IN, pop mx, nx (Earhart 6/20).  
 11825 CHINA V. of Malayan Rev.; 1519-1532\* EG, ID as "V. of M. Rev. - - Long live C.P. of Malaysia" by W, spoke of revolutionary leaders having to seize political power (Poppin 6/15).  
 11826.2 SOCIETY IS. R. Tahiti; 0541 TT, now off-channel w/het (Walcutt 7/14).  
 11830 ECUADOR HCJB; 0240 RS, 0700 EG, religious (Mihajlov 7/1, 7/3).NF?  
 11830 USSR RM; \*1900 EG, heard //9720 but not others (Brown 6/11).  
 11835 ECUADOR HCJB; 0720 EG, rel pgm (Gionet 7/1); 1124-1132 SP (Earhart 7/1); 1200 EG, "DX Party Line" (Zilmer 6/25).  
 11835 HAITI "4VEH"; 1100-1200 EG (Smallwood 6/6); 1118-1128 EG, fair until 1124 when HCJB started coming in like gangbusters and 4VEH faded to a low signal underneath (Earhart 7/2); 2335 EG (Bryan 6/17).  
 11835 SUDAN (t) R. Omdurman; 2050-2100\* AR, solo chants, Arabic mx, ID, chime/bell mx and off, poor (Osterman 7/3).  
 11840 GERMANY E. RBI; 0330 EG, nx & cmntry, 11890 not heard this day Bishop 6/18); 0410 EG, ID, freq schedule, s/off (Bryan 6/15).  
 11840 SPAIN \*2030-2230 EG, pgm to Europe, nx, cmnt on political parties (Brown 6/18, Gionet 6/29, Leffler 6/11, C.Sherman 7/1).  
 11850 USSR RM; 2230-2300 EG, ID, nx, cmntry (Smallwood 6/9).  
 11855 AUSTRALIA RA; 1100 EG, nx, "Focus", unlisted freq (Zilmer 6/28).  
 11855 CANADA RCI; 2045-2100\* EG, "Weekend Magazine", clear BBC ID for same xmtr just before s/off; not Daventry, what gives? (Brown 6/18).  
 11855 SAUDI ARABIA BSKSA; 2100 EG with AR lesson, M&W; buried by VOA at 2128 signing on in PT (Gionet 6/18). AR lessons new for BSKSA? -ed.  
 11865 MALTA DW-Cyclops; 0147 EG to ECNA, S.W.Afr. situation (Florian 7/9).  
 11870 USSR RM; 0145 EG, cmntry, QRM from DW 11865, poor (Florian 7/9).  
 11880 CANARY IS. RTVE; 2252 SP, mx (Bryan 6/19); 0100-0345 EG, "V. of Spain", Spanish folk mx, Spain features (5 reporters).  
 11880 TURKEY TRT; 2035-0030 TK/EG, UK & US rock mx (7 reporters).  
 11885 ECUADOR HCJB; 2200-2300 JP, 2300-0130 PT, 0130-0200 RS, s/off at 0200, //15375 (Smallwood 6/8). Was// heard or just announced? -ed.  
 11890 GERMANY E. RBI; 0330-0415 EG to N.Am., propaganda (9 reporters).  
 11895 NORWAY RN; 0322 NW, M&W tlk (Bryan 6/14).  
 11900 SOUTH AFRICA R. RSA; 0610 EG, "Good Morning Africa" (Grenier 6/28); 0635 EG, "GMA" w/US jazz, into FR at 0700 (Mihajlov 7/3); 1105-1110 EG, nx, cmntry (Valko 6/9); 2100-2150 EG, "S.African Panorama" (Smallwood 6/11). Sched. 2230-2320 to N.Am. inaudible of late -ed.  
 11900 USSR RM; 2258-2315 SP, jamming at 2306, no R.RSA (Walcutt 7/9).  
 11905 SWEDEN RS; 0029-0100 EG to N.Am. (6 reporters); 0100-0130 SW, nx, etc., ID's (Bryan 6/15, Howard 6/26); 0130+ SP, //11705, p (DIW 7/23).  
 11905 UNID 0450, Eastern-type singing & unid. lang, then instrumental; Thailand only thing reported, anything else here? (Sherman 6/29).  
 11910 HUNGARY RB; 0200-0230 & 0300-0330, EG to N.Am. (8 reporters).  
 11920 USSR RM; 2025-2035 IT, tlk, IS, ID, pretty good (Bogel-CA 7/4).  
 11925 GREECE VOA-Kavala; 0504 EG, nx of Spanish election (Bryan-CA 6/15).  
 11925 GREECE V. of Greece; 1800 SP, IS, mx, nx (Godfrey 6/18). SP??? -ed.  
 11935 AUSTRALIA RA; 2230+ VT (Smallwood 6/9); 0630-0650 EG, nx by W, then music program (Sillings 7/3).  
 11935 PORTUGAL RP; 0300-0330 EG, nx, jamming (Grenier 6/27, Streveler 7/3).

- 11937.7 CAMBODIA Phnom Penh R.; 0930-0945 CB?, usual style of political talks, good (W.Smith 7/8); 1210-1225 CB, noted with S.E.As. mx, talks, gong at 1215 w/clear mention "Kampuchea" & "Phnom Penh", fair w/het & QRM from 1940 (Roberts 6/26); 1250-1303\* unid. lang., high-pitched mx w/short talks, R. Moscow QRM (Delap 6/10).
- 11940 BELGIUM BRT; 1625-1640 EG, mx, nx (Alexander 6/15).
- 11940 ROMANIA RB; 0200 EG, semi-classical mx (Bryan 6/16); 1954-2025 EG, mx request pgm w/W ann. w/unintelligible accented speech (DLW 7/25).
- 11940 SINGAPORE RS; 1424-1508 EG, mx, sports nx, many references to "Singapore", poor (Brookwell 6/13).
- 11945 SPAIN RNE; 0100-0105 SP, many ID's, talks by M&W (Valko 6/13).
- 11950 HOLLAND RN; \*2130-2250\* SP, "Estacion de la Alegria" Sundays (Smallwood 6/12, Grenier 7/3, Luce 6/7).
- 11950 JAPAN NHK; 1835-1900 EG, nx, cmntry (Trask 6/24, Howard 6/25).
- 11950 UK BBC; 1115 SL, freq ann't then nx (Mihajlov 7/6).
- 11950 USSR (Kazakh SSR) R. Alma Ata; 0006-0040 RS, tlk by M&W, piano exercise mx from 0015, fair (Krueger 6/26).
- 11950 USSR RM; 2013-2023 EG, attack on China's African policy (Bogel 7/4).
- 11960 ECUADOR HCJB; 0240-0255 SP, Andean mx and nx (Delap 6/28).
- 11960 ISRAEL Israel R.; \*2100 RS, ID; jammed into oblivion! (Brown 6/11).
- 11960 UK VOA-Woofferton; 1630-1700 CZ, fair (Brown 6/19).
- 11970 ANTIGUA/MONTS. DW; 1320\* GM to N.,C.Am., site at close (Brown 6/18).
- 11970 USSR RM; 2050 EG to Afr., report, poor signal (Altman 6/21); 2045-2100 EG, "People, Events" & "Weekend Report", weak w/QRM, heard // 15490, 11960 (Brown 6/11); 1103-1118 RS, mostly mx (Barhart 7/2).
- 12012 COSTA RICA R. Reloj; 0256 SP, nx, tlk, 2 x 6006, g (Pinchuk 6/20).
- 12020 USSR RM; 1600 CH, assume Petropavlovsk, poor (Brookwell 7/5).
- 12070 USSR R. Rodina; 2055-2100\* RS, classical mx, beautiful (Ieffler 6/11).
- 12085 KUWAIT RK; \*1700-2000\* EG, rock mx & talks (8 reporters).
- 12175 ICELAND Rek. R.; 1224 Icelandic, rel. or opera song (Pineault 6/26).
- 14985-15085 MEXICO "XEW"; 2350 SP, had been hearing extremely wideband and distorted FM signal around here and feared the FRG-7 was letting thru a local FM image -- but today found clearest audio around 15080 with SP coverage of an event at the Plaza México, TC at 0001 as 6:01, and ID again as XEW, no sign on nom. 15160/15175 (Hauser 6/26-27).
- 15000 HAWAII WVVH; 0155 EG, totally skipped over WWV (Wineland 6/12).
- 15008.8 VIETNAM VOV (or whatever); 1450-1528 CN, JP, vocal & instrumental Viet mx (Thompson 6/23); 1800-1835 EG, //10040 (8 reporters).
- 15030 CHINA R. Peking; 0636 CH, mx, W annrc (Bryan 6/12).
- 15080 INDIA AIR; 1750-1820 EG, mx, nx at 1800, good (Streveler-HI 6/9).
- 15080 CHINA R. Peking; 0005-0020 CH, W annrc (Underdown nd).
- 15084 IRAN NIRT; 1600-0645 FS, Persian vocal & inst. mx (7 reporters).
- 15105 FINLAND RF; 1300-1330 EG to N.Am., nx, lbx, tlks (7 reporters).
- 15110 USA WYFR; 1352 EG, music (Swanson 7/3).
- 15115 ECUADOR HCJB; 1330-1407 EG, "Morning In The Mts." (6 reporters).
- 15120NF ECUADOR HCJB; 1700-1730 FR, rel. mx, 1730 EG ID, f (Trask 6/27).
- 15120 NIGERIA NBC; 2040 EG, Dar es Salaam Conference tlk (Gionet 6/12).
- 15125 GERMANY E. 1200-1245 EG, nx & cmntry (C.Sherman 7/4).
- 15130 NEW ZEALAND RNZ; 2334-0415 EG, nx, wx, mx, best 0230+ (8 reporters).
- 15130 USSR RM; 0815 EG, ID, tlks, good (W.Smith on trip to CA 7/8).
- 15135 FRANCE RFI; 0654 FR, sports news brief (Bryan-CA 6/12).
- 15135 NORWAY RN; 1107-1113 unid lang., nx, ID's in EG (Valko 6/7); 1200 EG, "Norway This Week", fair (Zilmer 7/13).
- 15140 USSR RSP&P; 1550-1600\* EG, ID, IS (Alexander 6/15).
- 15140 USA VOA-Bethany; 2100-2132 EG, news cmntry, world report (Lister 7/1).
- 15150 JAPAN NHK; 0210 EG, nx, cmnt, poor (Florian 7/9). //15105 or what?
- 15155 FRANCE RFI; 1610 EG, nx, mx, //15200, 15300, 11845 -- all heard (Alexander 6/15); 1630-1655 EG, "Paris Calling Africa", talk about RFI Listener's Clubs & how they are doing (Berezowski 6/26).
- 15160 AUSTRALIA RA-Lyndhurst; 0405 nx; 10 kw & //15320 (Altman 7/6).
- 15165 DENMARK RD; \*1100 DN to Greenland w/ID in EG and nx in DN, excellent (Gionet 6/26); 1259-1344 DN w/EG annts (Pinchuk 6/9, Valko 6/12, Crovo 6/18, Florian 7/6); 1330 DN, regular pgm to Greenland; other than opening & closing EG ID, daily spot checks during last 2 wks in June and 1st wk in July show no EG pgms yet (Hayes 7/7); 1600 DN, EG ID, f (Wilson 6/21); 1730 EG/DN ID, nx (Alexander 6/25).
- 15170 NORWAY RN; 1200 EE, "Norway This Week", poor (Zilmer 7/3).
- 15175 NORWAY RN; \*1257-2110 NW/EG, "NTW" etc. (6 reporters).
- 15180 USSR R. Vilnius; 2300 EG, nx, cmnt, mx, fair (Zilmer 6/28).

- 15185 NETH. ANTILLES RN-Bonaire; 1900-1915+ AR, //11740 (Brown 6/18).  
 15185 SRI LANKA VOA-Colombo; 0100-01332 EG into HD, nx, cmntry, "Opinion Roundup" (Lister 6/14). An apparently little known fact is that this is one of three 35 kw VOA xmtrs which also carry SLBC pgms -ed.
- 15185 USSR RSP&P 1545-1600 EG, usual political cmntry (Brown 6/12).  
 15185 USA WINB; 2100-2110 EG, ID into religious pgm, good (Brooker 6/26).  
 15190 CONGO RTVC; 1723-2145 FR exc. 1730-1830 when QRM from VOA-Bethany (Brookwell 6/28, Bryan 6/12, Godfrey 7/1, Leffler 6/11); 2120-2140 EG, nx, tlk on African affairs (Howarth 6/25, Wilson 6/11).
- 15200 FRANCE RFI; 1600-1700 EG, contest details (Croro 6/18, Howarth 6/22).  
 15210 ECUADOR HCJB; 1259-1305 EG/GM to Asia, hymns (Earhart 6/12).  
 15220 NETH. ANTILLES RN-Bonaire; 2100-2120 FR for W.Afr. (Delap 7/6); 2128 DT, IS, ID, nx (to S.Am. -ed) (Howarth 6/22).  
 15220 SOUTH AFRICA R. RSA; 0630 EG, ID, TC, freq sched (Trask 6/11); 1455 SH, IS, ID, fair w/QRM (Howarth 6/22).
- 15225 TUNISIA RPWT; 0305-0348 AR, chants, vocals, often heard in the 1500-1700 area but never before after dark, fair, //7275 much better (Cress-VA 7/11); 0327-0500 AR, martial tune, ID, Koran, mx, nx, QRM from Budapest to 0400 (Brown 6/27); 1925 AR, nx (Bryan 6/18).
- 15230 CUBA RHC; 0028-0704 SP, nx etc. (Valko 6/9, Bryan-CA 6/12).  
 15240 YUGOSLAVIA 1530 EG, ID and nx, good (Wilkinson 6/16).  
 15260 ASCENSION IS. BBC W.S.; 2140 EG, comedy program (Howarth 6/22).  
 15260 FINLAND FR; 1300 EG, "What, Where And When", //15105 (Zilmer 6/25).  
 15270 JAPAN NHK; 0026-0045\* EG to ECNA, "Hello America", TC for 16 'til 10 AM Japanese time, fair/good (Florian 7/10, Underdown 7/9).
- 15280 USA VOA-Greenville; 2053 RS, US newspaper excerpts (Mihajlov 6/27).  
 15280 USA KGEI; 2356-0005 SP, nx and ID's (Valko 6/9).  
 15290 MALAYSIA VOM; 0830 EG, ID, nx, fair (Streveler-HI 6/7).  
 15290 PHILIPPINES VOA-Tinang; 0025-0040 EG, nx, M host (Lister 6/21).  
 15295NF ECUADOR HCJB; 0100 PT, tlk, mx, //11885 (Zilmer 6/25); 0213-0230 FR, "La Voix de l'Evangile", ex-15300 (Brown 6/27, Gionet 6/24).
- 15295 USSR RSP&P; 1230 EG, nx, cmntry, mx (Zilmer 6/25).  
 15305 SWEDEN RS; 1400-1415 EG, "Mag. Panorama", "Review of the Swedish Press", lbx (Hoffmann 7/5, Howarth 6/22, Crovo 6/19).
- 15305 SWITZERLAND SBC; 0703-0725 EG, nx, cmnt on Swiss foreign trade (Trask 6/28, Bryan 6/12); 2100 EG, "Dateline", fair (Zilmer 7/4).  
 15305 USSR RM; 1725 RS, unid. lang., clear RS ID at 1729, then RM IS, then ?-lang., not listed in BEC M.S. 86-77 (Brown 6/11).
- 15310 ECUADOR HCJB; 2000-2030 EG into 2030 FR, "DXPL", interview with the announcer's daughter (Crovo 7/7, Mihajlov 6/27, Valko 6/15).
- 15320 AUSTRALIA RA; 0140-0708 EG exc. 0500-0600 FR, exc. (6 reporters).  
 15325 CANADA RCI; 1815-1825 EG, Amer-Indian stories, g (Birkhaeuser 6/26).  
 15325 PAKISTAN RP; \*0200-0245 IN/EG, mx, nx in IN directed to Indonesia, Pakistani vocals, EG nx at 0240 (Brown 6/19, Hayes 7/1, Krueger 6/26).  
 15325 UGANDA UBC; \*1800-1830 EG, drums IS, ID, mx, nx (Croro 6/18); 1844-1858 FR, Uganda folk mx, good (Pineault 6/25).
- 15340 PORTUGAL RP; 1900 PT, gongs, NA, s/on, tlk (Florian 7/6).  
 15349.6 ZAIRE LVDZ; 0700-1000 FR, Kinshasa noted well here //15245 which was under USSR-Chinese) and playing lots of nice hi-life mx too (Willis); 2350 FR, soul mx (Bryan 6/20); 2120 FR, noted here, off-channel, where it really messes up Luxembourg, 15349.4 (DLW 7/22+).
- 15360 MOROCCO RTVM; 1350 AR, typical Arabic mx, brief talks by M, fair (Florian 7/6); 1525 AR, mx, chants (Alexander 6/14).
- 15365 ROMANIA RB; \*1730-1750\* EG, nx, cmntry, to Afr., g (Streveler 6/9).  
 15375 EGYPT R. Cairo; \*2000 Bambara, clock chimes, ID, chanting, "Voice of Africa" service; language is per BBC M.S.; good (Brown 6/18).
- 15385 MEXICO RM; 2230 SP, EG mx, ID's talk (Myers 6/23).  
 15390 VENEZUELA R. Nac.; 2230-2245 EG, nx, mx (Valko 6/7).  
 15395 US VOA-Greenville; 1900 AB, nx (Mihaklov 6/27).
- 15402 BANGLADESH RB; 0535 in local dialect, heard well (Willis-AUST 6/20).  
 15410 RWANDA DW-Kigali; 1200 EG to Africa, nx, mx, cmnt (Zilmer 7/1); 2315-2336 GM to (S.?)Am., interviews etc. (Bryan 6/12, Earhart 7/2).
- 15425 AUSTRALIA ABC-Perth; 0255 EG, relay of 6WN, classical mx, QRM Moscow (Brown 6/19); 0715-0730 EG, nx, TC, good (Trask 6/26).
- 15425 SRI LANKA SLBC; 0100-0215 EG, All Asia Service, religious pgms (6 reporters); \*0330-0400\* EG, "Adv. World R." px (Gionet 6/26).
- 15425 USSR RM (-Petropavlovsk?); 0134 EG, nx of USSR, QRM from SLBC (Florian 7/9); "R. Kiev", nx, cmntry, steady signal (Godfrey 6/16); 0300-0330 XX/EG, history of Armenia, fair (Delap 6/14).
- 15430 SWITZERLAND SBC; 1100 EG to Afr. (Zilmer 6/30); \*1530 EG (Alex. 6/25).

- 15435 CHINA R. Peking; 0212 EG, criticism of Soviet Union (Florian 7/9).  
 15435 TANZANIA RT; 0431 EG, pop mx and Afr. songs (Pineault 6/25); 1727-1915\* EG, 1800 nx, 1830 "V. of Namibia", exc. (Streveler-HI 6/23).  
 15440 USA WYFR; 1755 EG, "Health Tips" (Swanson 6/5); 1840 EG, "Conference Echoes", old Gospel hymns, //15110, 17845 (Brown 6/12).  
 15455 USSR R. Rodina; 1950 RS (Mihajlov 6/27); 2100 RS "Mayak" (Luce 6/11).  
 15485 ISRAEL Israel R., 2230-2302 EG, features (Luce 6/11, Thompson 6/27).  
 15485 ITALY RAI \*1830 IT to L.Am., mx, good (Brown 6/12). Not hrd 7/27-ed.  
 15505 USSR RM; 1830+ EG to Southern Afr., f, ex-15450? (DLW 7/27).  
 15510 ROMANIA R. Esp. Ind.; 1228-1238 SP, communist activ. (Krueger 6/18).  
 15520 PAKISTAN RP; 1620-1645 EG, local mx, ID and dictation speed nx read by M, fair (Wilkinson 6/25, Sapoznikov 6/25). Yep, same day.  
 15547 ISRAEL Israel R.; 2250-2305 HB, brief tlk, mx (Earhart 6/25).  
 17630 ISRAEL IBA; 1343-1358\* unid lang., Coca Cola ad, tlk (Delap 6/10).  
 17650 CHINA R. Peking; 0200-0215 SP, fair reception (Delap 6/16).  
 17665 PAKISTAN RP; 0200-0215 IN w/EG ID, mx, f (Brown 7/4); 1100-1115 EG, G.O.S. of R.P., nx in slow EG, exc. (Gionet 6/29); 1405-1630 UR, subcon. vocals & mx (Krueger 6/12, Cress 6/30, Bryan 6/12, Trask).  
 17680 CHINA RP; 0022-0320 EG, agricultural talks, music from China, nx (Yajko 6/30, Gionet 6/17, Zilmer 6/26, Wilson 6/24).  
 17720 USSR (Pet.-Kam.) RM; 0515 RS, M&W, piano mx (Bryan-CA 6/12); 1940-2002 RS, W DJ w/EL, Western-style mx, IS, time pips (Bogel-CA 7/4).  
 17720 USA WINB; 1930 EG, Bible study & rel. mx (Wilson 6/21).  
 17725 EGYPT RC; 1915-1940 unid. lang., tlk, mx, fair (Trask 6/23).  
 17725 JAPAN NHK; 0130 EG, ID, nx, //15195, 15420 (heard? -ed.) (Florian 7/9).  
 17730 IRAN NIRT; 0709-0722 FS, chants, good, //15084 (weak) (Krueger 6/26).  
 17755 ECUADOR HCJB; 1330-1340 SW, 1935-2000 EG, hymns (Earhart 7/2).  
 17763.-82 ALGERIA? 2250 AR, an Arabic-speaking station noted causing a nasty het to AFRTS, measured here (Hauser 6/11).  
 17767 SAUDI ARABIA BSKSA; 1530-2205 AR, mx & Arabic annts., bells IS before the hour, no //locatable, fair signal (Cress-VA 6/18 & 19).  
 17765 RWANDA DW-Kigali; 1200-1214+ EG to Afr., nx (Zilmer 7/1, Earhart).  
 17765 US AFRTS via VOA-Dixon; 0130 Calif./Chicago baseball (Gionet 6/23).  
 17770 SWEDEN RS; \*1330 FR, nx & features (Gionet 6/26).  
 17780 HUNGARY R. Budapest; 2130 EG, nx, cmnt, poor (Zilmer 7/3).  
 17780 SOUTH AFRICA R. RSA; 0630 EG, tlk, mx (Wilson 7/4).  
 17785NF USA WYFR; 1545-1600\* EG, rel., Sundays only?, good (Brown 6/19).  
 17795 AUSTRALIA RA; 0058-0300 EG to N.Am., excellent (5 reporters).  
 17795 ITALY RAI; 0425-0440 IT, non-stop vocals, nx (Earhart 6/25).  
 17795 NORWAY RN; 1600-1630 EG (Sun.), "NTW", poor, //17800, 15175 (Cress 7/3, Zilmer 7/3); 2126 NW (Jeffer 6/11); 2208+ NW (Earhart 6/8).  
 17800 NORWAY RN; 1600 EG, "Norway This Week", poor (Zilmer 7/3).  
 17810.1 PHILIPPINES FEBC; 2345-0459 (break?), rel (5 reporters, DLW's freq).  
 17815v BRAZIL R. Cultural de S.P.; 0001-0200 PT, class mx weekends, pops during week, good after VOA off at 0000 (Cress 6/27, 29); 0003-0155 PT, pop mx, nx, drum rolls between items (Osterman 6/23); 2326-0010 PT, full ID 2330, rel pgm from 0000, very good, esp. fcr lkw. (Krueger 6/24); 0108 measured freq at 17814.8 but maybe varies (DLW 7/14).  
 17825 JAPAN NHK; 0135-0140 EG, nx, "Tokyo Calling" (Altman 6/27, Grenier).  
 21485 ITALY Vatican R.; 1125 EG, tlk on Catholicism in E.Afr., I adamantly regard this as radiating from Italy, even tho it has been established that the VR Santa Maria di Galeria site enjoys extraterrestrial status, as Richard Wood points out (Hauser 6/3).  
 21625 ISRAEL Israel R.; 1421-1430 YD into RS at 1630, fair (Osterman 6/12).  
 23940 CUBA RHC; 0040 SP, 2 x 11970, nx of L.A., poor (Brookwell 6/13).  
 29295 ANTIGUA 2320 PT, correlating nicely with opening on 30975, BBC Portuguese found here, 3 x 9765; earlier in the day I was getting Cuban TV, but at this hour the skip on TV was from Ontario/Quebec/South Dakota, so not sure if this reception was by Es (Hauser 6/26).  
 30336 COLOMBIA R. Súper de Bogotá; 2113 SP, first time noted on this freq, luckily IDed during fade in during adstring; 5 x 6067+; previously heard on 4th harmonic (Hauser 6/24, also heard 6/26).  
 30975 ANTIGUA BBC W.S.; 2316, checked this freq often since previously logging on May 7, but MUF didn't make it up here again until today, when BBC W.S. was barely heard with "New Ideas"; 5 x 6195 (Hauser 6/26).

I kinda had to rush through this last page, so I hope I did not make too many miss takes! 13 meters will get a better deal next month; 73

NOTE: September deadline is the 5th, not 12th.



# FRENDX CREDITS

Distr. Editor: Greg Ravenhorst

Rural Route, Hollandale, MN. 56045

Thank you to 68 reporters this month. Don't let the heat stop your DXing!!!

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(Trio 9R59DE)...Bill WILSON, Huntsville, AL (SX-110)...James WILSON, Jr,  
Lincoln, NE (R-388)...Lynn WINELAND, Blacklick, OH (DX-160)...Frank WOLTMAN,  
Cambridge, WI (DX-160)...Robert YAJKO, Leechburg, PA (SPR4)...Robert ZILMER,  
Milwaukee, WI (SPR4)...4 from MN, but where is Gavaras?? (still at ANARC?)

\* \* \* \* \*  
**HELPING HAND** For Sale: Realistic Astro Four in near mint condx. \$40 plus shipping. Specs exactly like newer model DX-40, but Astro has slightly better sensitivity. Bob Underdown, 313 Seward St, Siloam Springs, AR 72761

**HELP WANTED** Wanted to Borrow: Indonesian Report Form to copy. I'll return your original. Gerry Bishop, RD 1, Box 440, Christiana, PA 17509

**HELPING HAND** Must sell Heathkit SW-717, extra fine condition, BFO, band-spread, ANL, manual. Want \$50 and I will pay postage east of Mississippi or \$45 and you pay. Will trade this, Lafayette Ha-600A and a Sony portable (I've logged R.Abidjan on it) for FRG7. Write John Sillings, 348 Angola Rd, Cornwall, NY 12518 or call (914) 534-2614 not collect!!!

**\*\*\*SPECIAL NOTICE\*\*\*** I will be on vacation in the Benelux countries of Europe during Sept. 12 - 27, so my September deadline must be the 5th, instead of the usual 12th. Any reports recieved after the 5th of Sept will not make it into print for the October issue. So, be sure that your reports for the October issue of the "Log Report" sections gets here by September 5th.

ANARC '77 was a great pleasure to be at, and it was great to meet so many NASWAers at it. Those of you who didn't attend a great convention!! Plan to attend next year, ok?! Special thanks for ANARC 1977's success go to Dave Brown of ANARC & Jeff White of WIDXC. 73's to all,

*Shag*

# NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION \* POST OFFICE BOX 13 • LIBERTY, INDIANA 47353 U.S.A.  
Publishing 无线电技术 Monthly **Friend and Friendship**

NASWA'S dues are \$13.00 per year for members in North America, and for delivery via First Class Mail. Overseas dues are the same, but airmail is available for an additional cost. The following is the additional fee for overseas airmail: Central America, the Caribbean, South America, and Europe \$7.00. Asia, Africa and the Pacific \$9.00.

NASWA'S DX HOTLINE is compiled twice a month, giving the DXer the very latest DX news while it is hot. The DX HOTLINE is edited by veteran DXer Tom Alleman. All reports for the DX HOTLINE go directly to Tom at 615 W. 43RD Terrace, Kansas City, MO 64111, USA. One issue of DX HOTLINE is incorporated in each issue of FRENDX, the other issue, the Mid-Month DX HOTLINE is available in a separate mailing to NASWA members for \$3.00 per year in North America. It is airmail overseas for \$5.00 per year. These fees are, of course, in addition to the annual membership dues.

All inquiries, checks/money orders/dues/renewals/and or orders for the Mid-Month DX HOTLINE should be sent to NASWA Headquarters:

P.O. Box 13, Liberty, Indiana 47353, USA

All remittances should be in U.S. funds. Sample FRENDX and DX HOTLINE are available for \$1.00.

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