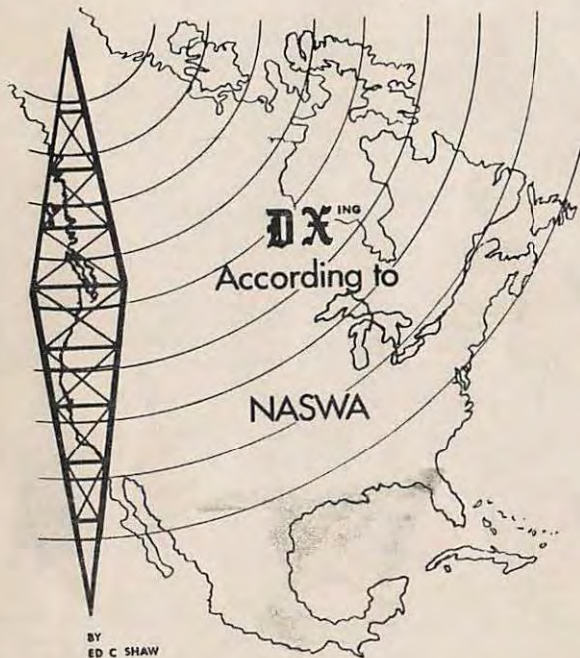


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North American Shortwave Association

PRESENTS



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MAY 1976  
P.O. Box 13  
Liberty IN 47353

North American SW Association

# Loudenboomer

## report



The young man sat alone. The room was dark, as black as an Omar heart. The young man thought he heard sounds somewhere in the ramshackle building. Was that a jammer reverberating down the outside hall? There! "Midnight in Moscow" too! Or was he imagining things?

"How did I get myself into this fix," he lamented. "When are they going to come? I want to go home and forget the whole thing!"

The minutes dragged by. Nearly a hundred of them by now. And then, far away, he heard the footsteps. Coming closer and closer, echoing through the nearly empty building. Advancing upon him like impending doom.

The sounds stopped. Someone began opening the door, very slowly, until it had swung wide and struck the wall. A robed, hooded figure holding a flickering candle stood in the doorway.

"Dudley Dormant, rise and follow me. Stay ten paces behind."

"Good grief!" thought Dudley. "I don't want to go through with this! I want my mommy!"

But from somewhere within him, Dudley gathered courage and rose, following the frightening figure down the darkened hall, up some stairs, down another hall, until they had come to a door at the end of the passage. The figure knocked three times, then twice more, then another four, opened the door and motioned Dudley into the room which was even darker than the first.

"Stand there" the figure commanded and disappeared into the depths of the blackness.

Dudley could see nothing, hear nothing except soft breathing in front of him. Suddenly, powerful spotlights hit him with an almost physical force. Dudley's hands flew to his eyes. He began to sweat.

Then a voice, irritating, ringing as though transmitted on SSB with the receiver's BFO nearly oscillating.

"Dudley Dormant," it said. "The Council considers you. We have examined your activities. We have watched. We have studied. Now we seek your replies to our questions. You will answer "yes" or "no."

"Do you promise timeliness?"

"Do you promise no dereliction of duty?"

"Do you accept neophyte service in the garbage can brigade, searching for eight month old ribbons?"

"Are you willing to take a yearly abbreviations test and do you swear never to use a complete word when an abbreviation will do?"

"Do you promise to pounce with all of the venom at your command, upon any individual daring to propose to you anything not to your liking or agreement?"

Dudley, shaking quite severely by now, answered "yes" to all of the questions.

Another voice spoke.

"Extend your left wrist."

A hand reached out and stamped Dudley's wrist with some sort of round ink stamp.

"If you are accepted, you will have that tattooed within seven days," spoke another voice from the blackness beyond.

As suddenly and unexpectedly as they had arrived, the spotlights went out. Dudley heard voices mumbling, a chair being pushed back, someone rising.

The normal room lights came on. Dudley's mouth dropped open as recognition of his interrogator sped into his mind.

"I know you! You're g...." Dudley started to say.

"Dudley Dormant," the man interrupted, "Congratulations! You are now a NASWA LR Editor!"

**SCADS TO HOST 1976 ANARC CONVENTION:** The Southern California Area DXers (SCADS) headed by Don Johnson, Stewart MacKenzie and John Clements will host the Association of North American Radio Clubs (ANARC) 1976 convention to be held at the Holiday Inn, 9901 South La Cienega Blvd., Los Angeles, CA 90045 (near the Los Angeles International Airport) from Friday, July 23 through Sunday, July 25, 1976.

Registration, to be paid in advance, will be \$14.50 including the banquet on Saturday or \$10.00 without the banquet. Room rates at the Holiday Inn are \$18.00 single or \$24.00 double. All registration fees, requests for room reservations and inquiries should be directed to ANARC 1976, P.O. Box E, Elsinore, CA 92530. Make checks payable to "ANARC 1976".

Plans are that there will be prominent speakers in both DXing and professional broadcasting, tours of local sites, equipment displays, HAP auction, and more. Include a SASE, please.

## NASWA SWL SURVEY

There is very little information available about the shortwave listener in the United States--this could be a reason why SWBC stations, manufacturers, publishers, etc., seem inattentive to the desires of the SWL/DXer.

Within a few days after the arrival of this issue of FRENDEX, all NASWA members in the United States will be receiving the NASWA Questionnaire. This multi-page questionnaire will contain questions about your listening preferences and your radio hobby activities.

Hopefully, this survey will help to fill some of this information gap, but it can only succeed if NASWA members cooperate by completing and returning the questionnaire. No return postage will be necessary, and you will not have to list your name and address, thereby assuring your anonymity. This is a good opportunity for DXers to make their existence known, so please take a few minutes to fill out the questionnaire and return it as soon as possible. Thanks very much!

**ALL CLUBS DX RALLY:** In noting that 1976 is WORLD DX CLUB YEAR, the Ontario DX Association and the Canadian Handicapped Aid Program are pleased to announce an ALL CLUBS DX RALLY, jointly sponsored by ODXA and CHAP. All DXers and SWLs are invited to attend. The date is July 31 and August 1, 1976 at the Oddfellow's Hall in Kingston, Ontario, Canada. A small fee will be charged. Accommodations will be arranged upon request. For more information, write to All Clubs DX Rally, c/o The Ontario DX Association, 23 Lament Avenue, Weston P.O., Toronto, Ont., Canada M9N 2J9.

**ANNOUNCEMENT:** Ed C. Shaw has asked that we announce that he now resides at 507 Lafayette Avenue, Lexington, KY 40502. Persons wishing to call him should make a note that his phone is 606/266-5366 and he is usually available between 2200-0300 GMT. This is an unlisted number and should not be confused with another Edward C. Shaw also in Lexington.

**TUCH'S TRIVIA:** NASWA member John Tuchscherer, Neenah, WI says he is an avid reader and has been making notes of some of the more unusual statements he comes across in his readings. Watch for TUCH'S TRIVIA items scattered here and there in FRENDEX in the future.

**EUROPEAN DX COUNCIL:** The 10th Conference of the European DX Council-EDXC-will take place from May 26 to May 30, 1976 at Hilversum in the Netherlands. The conference will be held in the buildings of Radio Nederland, Witte Kruislaan 55. Many clubleaders, DX editors and prominent guests are expected.

Every DXer is invited to join. Information and application forms for 1 IRC from W.S. Franken, P.O. Box 234, Amstelveen, Holland.

**A GUIDE TO SOVIET BROADCASTING:** A new 40 page offset printed book on DXing & SWling in the Soviet Union by Bob Butterfield and Doug Snyder has just been published by SPEEDX, P.O. Box E, Elsinore, CA 92530. The book is designed to help SWLs understand the confusing broadcasting situation in the USSR. Subjects covered include Russian language identification, a Russian report form, regional station sites, Soviet sites by frequency, and more. The price is \$1.25 US or 7 IRC's via surface mail anywhere in the world. For overseas airmail, add .25¢ US or 2 IRC's

**MONITORS NEEDED:** The ANARC Frequency Recommendation Committee has the job of helping to find propagationally-suitable and interference-free channels for shortwave stations broadcasting to North America. The FRC is looking for experienced SWLs to serve as monitors. Monitors should 1) have a receiver with 5 kHz or better readout, 2) have a basic knowledge (not necessarily expertise) of shortwave propagation, and 3) be willing to spend some time listening to transmissions beamed to North America. Interested persons should contact Kim Andrew Elliott, 317 Polwell Hall, University of Minnesota, Minneapolis, MN 55455.

**CHAPSAS WORKERS NEEDED:** The Canadian Handicapper Aid Program Stamp Approval Service (CHAPSAS) needs two or three people to assist. The following positions are to be filled. (1) United States Division; for selections of stamps, arranged in sets, prepackaged and ready to sell which are to be sent to the prospective customer who will return unwanted stamps along with payment of those kept. (2) Experienced philatelists to sort and package processed stamps into countries and make ready for sale. Contact CHAPSAS Sorting Office-1, 9 Grandin Place, St. Albert, Alberta, Canada T8N 1B5.

**NASWA SCOREBOARD TO RETURN:** As announced in the April issue of FRENDX, the Scoreboard section will return with the June issue after a lengthy absence. We had hoped the previous Scoreboard editor would forward all recent updates but apparently this will not happen, so anyone wishing to update his or her totals since the last Scoreboard appeared in June, 1975 should send them to Myron Smith, 36 Ogden Center Road, Spencerport, NY 14559 to be received not later than May 15. The spotlight will feature Oceania/Antarctica.

**RCI INTERVAL SIGNAL & IDENTs:** Ted Poling, HAP-US Director asks us to clarify that there are only four RCI tapes available in the RCI Interval Signal & Ident series. Apparently the previous announcements we have carried have misled some in assuming there are seven rather than four. Tape 1 is African stations and is priced at \$3.50. Tape 2 is European stations and is priced at \$4.00. Tape 3 is of Pacific, Asian, Americas, and Caribbean stations and is priced at \$4.00. Tape 4 is the "Foreign Language Recognition Course" and is priced at \$4.25 each. The prices apply to either reel-to-reel or cassettes and can be ordered through Ted Poling, P.O. Box 163, Mt. Sterling, IL 62353 or from Harold Sellers, 23 Lamont Avenue, Weston, Ont., Canada M9N 2J9. Payment is to be by money order only (no checks, cash, or stamps), and allow six weeks for delivery.

**TUCH'S TRIVIA:** International Reply Coupons were adopted by the Universal Postal Union at their Congress of 1906 in Rome. In 1930 a coupon cost .09¢ in the United States, fourpence in Australia and threepence in Great Britain.

**ANARC NEWSLETTER:** The Executive Secretary for the Association of North American Radio Clubs (ANARC) publishes a valuable monthly newsletter, and it may be that some might not be aware that this bulletin is available to all SWL/DXers and not just clubs only. This bulletin contains late happening club news, special announcements on local group meetings and other DX events about to take place, etc. Subscriptions are available at \$2.50 per year through Dave Browne, ANARC Executive Secretary, 557 North Madison Avenue, Pasadena, CA 91101.

**NEW MEMBER COMMENT:** FR. WILLIAM BOGEL, C.M., Perryville, MO. Catholic Priest and Seminary Professor. "Thanks for sending me my first issue of FRENDX. Very interesting. One of the things I've immediately noticed about NASWA is there seems to be great spirit among the membership".....HARRY W. SCHLITZ, Long Beach, CA. Airline ticket agent. "I've really enjoyed your DX handbook".....EMERY FLINN, JR., Carrollton, GA. Investment Finance. "NASWA appears to be a very good organization. I look forward to participating ... ROBERT McINTOSH, London, Ont., Canada. "I found the sample copy of the February issue of FRENDX alone was responsible in aiding me to 28 new DX catches".....JON H. GREENBERG, Louisville, KY. Professor of Social Psychology. "I'm very pleased with my first issue of FRENDX. Between FRENDX and SPEEDX I now have access to the most complete, intelligent SW information that is available, I believe, anywhere in the world".

Regards & 73's

*M. R. Leonhardt*  
M. R. Leonhardt  
Executive Editor - FRENDX



# Shortwave Center



•Editor: Jerry Lineback  
Box 325, St. Joseph, IL. 61873

**MAY**  
**1976**

Welcome to another issue of FRENCH, the news and features publication for the discriminating shortwave radio enthusiast. Shortwave Center contains features of interest to DXers and SWLs. The material contained in it is contributed by YOU, the reader. Shortwave Center is your chance to be an author. Material of general interest related to shortwave radio is needed. Send all contributions to Shortwave Center to your editor, address above. Timely material should be here by the 10th of the month. Thanks to all our contributors. Thanks also for the nice compliments that we have received in regards to SWC.

\*\*\*\*\*

## Keep it Quiet

Chapter 4, SIGNALS SANS NOISE

by Morgan Monroe, Sandpoint, Idaho

If you've adopted the suggestions made so far in this series, you should be well along in your noise reduction program. (See the September 75, December 75, and February 76 editions of FRENCH for the previous articles by Morgan Monroe.) Once you have made sure your antenna system is not contributing to the problem, have rid your receiving location of random electrical noise, and installed a line filter to trap AC-conducted noise created by others nearby, it's time to consider the noise potential of your receiver.

Excluding noise associated with atmospheric and geomagnetic disturbances, you may now be reasonably certain that most of the consistent reception noise you experience is produced within your receiver. And it should now be clear that successful noise reduction is essentially a process of elimination.

Some SW receivers are greater noise generators than others and there's nothing their owners can do about correcting this basic engineering-manufacturing deficiency. But even receivers with miserably poor "noise figures" can be improved considerably by certain compensating actions. These aid in attaining the effect of improved signal-to-noise ratio.

When SWLs and DXers get together there is usually lively discussion concerning the comparative merits of solid-state and tube receivers. Where noise is concerned, however, such discussion is largely academic since owners of both types are obliged to fight noise constantly in its many forms.

Excluding portables, tube receivers are still operated by the majority of SW receiver owners. This condition probably will prevail for some time since many good tube type receivers continue to be on the used market and the solid-state receivers that replaced them are usually expensive. The vacuum tube has long been the technological backbone of shortwave listening around the world. It also is one of the principal contributing factors in determining whether a tube receiver is noisy or quiet. But despite the tube's continuing significance in SW reception, many receiver owners never give a thought to replacing this important component until one burns out.

This is a common mistake which in time is certain to increase receiver-generated noise. As tubes age, they become noisy, but since the process is gradual, the owner usually does not notice the noise buildup until it reaches a high level. Even then, he or she is likely to consider and pursue other possibilities when, in fact, all the receiver needs is complete tube replacement.

Results can be amazing. Regardless of age, a completely retubed receiver often performs much as it did when new. This is why point-to-point radio technicians and experienced ham operators retube receivers as frequently as every few months. The average

SW receiver owner needs not do this. But unless you retube every 18 to 24 months, you are not likely to enjoy consistently low-noise reception.

Picking up a new set of tubes at the supermarket is not the answer, however. Tubes are made in a tremendous quality spread ranging from those virtually worthless at any price to precision products laboratory tested for noise, microphonics, distortion, and uniformity. And the price differential between the later class of tubes and those of poor quality is not great.

The apparent signal-to-noise ratio of a receiver filled with aged, noisy tubes can be improved substantially by replacing the old clunkers with high-quality, low-noise tubes. Once this has been done, don't leave the replacements in the receiver forever. Two years is about maximum for continuing low-noise operation, even with the best tubes available.

Some tubes made overseas - where they are termed "valves" - are far superior in low-noise characteristics to most American made tubes. Outstanding examples are the Mullard tubes made in Great Britain. The Mullard Master 10-M series, for example, offers tubes individually laboratory tested and guaranteed for 10,000 hours or two years of operation. Such tubes are used extensively by major broadcast and transcription organizations and are fully interchangeable with American types used in receivers. They may be purchased in the United States from the larger electronic equipment suppliers.

These or other high-quality tubes at work in the RF, IF, mixer and output stages of a SW receiver can mean the difference between noisy, mediocre performance and true listening pleasure, often with no additional action by the receiver owner. If you have not retubed your receiver in the past two years, you are missing a sure-fire noise reduction bet.

Another simple but effective noise-abatement measure is a purely personal matter. Some SW receiver owners do not know how to tune their receivers properly. This observation is based on many years of ham operating and shortwave listening experience. Repeatedly, I have seen receiver owners, including some who should know better, operate their equipment in a manner that not only yields needlessly noisy reception, but also largely negates the engineering-manufacturing skills that produced their receivers.

Regardless of what you may have been told or by whom, there's only one correct way to tune AM shortwave broadcast signals. That way is to place the RF gain control at its maximum setting and adjust receiver output with the audio gain control. The only valid reasons for reducing sensitivity are to prevent receiver overload on extremely strong signals or when receiving CW or SSB transmissions.

Under any other circumstances, adjusting output with the RF gain control - an unfortunately common practice - nearly degrades your receiver's performance. In addition, when receiving AM signals, keep the noise limiter and AVC circuits operative. These circuits aid in minimizing noise and fading; they were built into your receiver for these specific purposes. Yet somewhere along the line, the erroneous idea sprang up which contends that by switching off limiter and AVC circuits, you have a better chance of "catching the weak ones." This practice is self-defeating. When receiving weak signals, you want as little noise and fading as possible. But a surprising number of receiver owners still believe the old myth, enduring increased noise and fading while pursuing it.

Other receiver controls often misused, with resulting increases in noise and adjacent station interference, are those associated with crystal filters and Q-multipliers. Both are selectivity aids which, when properly used, reduce interference and apparent noise by narrowing the receiver passband, shifting interfering signals within the passband, or both. The basic noise figure of a receiver can not be altered by changes in bandwidth, of course, but the apparent noise level improves as selectivity is increased. The functions and proper use of controls are described and expalined in receiver operating manuals.

When did you last read your operating manual all the way through? It was prepared and supplied with your receiver to aid you in attaining maximum performance. Reviewing the manual periodically is an excellent way to catch and correct poor operating practices.

A receiver that needs realignment can become excessively noisy together with other problems induced by this condition. If you are experiencing excessive receiver noise, an abundance of images and decreasing selectivity, your receiver probably needs realignment. Unless you are trained and experienced in such work, don't attempt to do it yourself. Take the receiver to a competent technician known to be familiar with communications receiver alignment.

Clearly, there are a number of methods by which you can enjoy greater freedom from noisy reception. No particular one is likely to solve the growing noise problem. But in combination they can make a tremendous difference in virtually any location with any receiver not a candidate for the trash can.

The final phase of your noise-reduction program centers around headphones and speakers, their selection, proper use and maintenance. These are subjects of the next and final article in this five-part NASWA series.

**PFM** PRECISION FREQUENCY MEASUREMENT IN THE MEDIUMWAVE AND SHORTWAVE BROADCAST

BANDS-Part 2

by Charles A. Taylor  
939 Eastern Ave.  
Indianapolis, IN 46201

This is the second of a three part series by Charles Taylor on PFM-Precision Frequency Measurement. The first part appeared in the March 1976 issue of FRENIX. The reader is referred to that article for details on the theory, method, and operation of a PFM system.

## LIMITATIONS AND DIFFICULTIES

Some brief references have been made to limitations and difficulties that relate to the transfer oscillator (TO) and its operation. We will now address our attention to some other equipment limitations and attendant difficulties of likely encounter.

**Counter and TO direct radiation.** In attempting to perform PFMs on any but the strongest MW and SW signals, it may be found that the signals of unknown frequency are "swamped" by the TO output - eventhough the variable attenuator has been adjusted for minimal TO output. This is a manifestation of direct radiation from the TO or counter, a situation in which radio-frequency energy is being radiated from the TO or counter powerline cords, interconnecting cables, chassis, or chassis openings, to the receiver antenna.

Two solutions immediately present themselves. First, efforts toward perfecting the shielding and filtering of TO and counter chassis and leads; additional bypassing of power line cords, using ceramic disc or mica capacitors of moderate capacitance (about 1000 pF) plus series inductances of several microhenries, inserted in each lead of the power cords (this filtering being accomplished within the TO and counter enclosures); and use of coaxial cable interconnections between the TO and counter, will serve to reduce the "floor" of direct radiation. Second, it would be helpful to locate the monitor station at some minimal distance from the receiving antenna, using a coaxial feedline to interconnect the two.

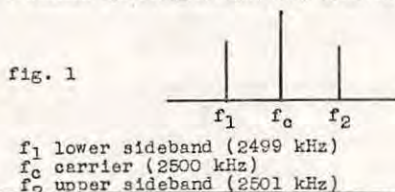
The first solution has been found to be of limited effectivity in the author's own situation. It was found that the greater portion of the direct radiation emanated from the readout aperture of the author's counter (a Heath IB-1101). Use of a shield fashioned from copper screen and fastened within the readout aperture and bonded to the counter chassis, may be effective. The author's desire to avoid modification of the counter ruled out this alternative however, so no experience can be related. However, even the Hewlett-Packard 5245L frequency counter has been observed to radiate radio-frequency energy via the readout aperture, so it is thought that such a solution may only be partly effective. (Likewise, laboratory grade signal generators have been found to be "leaky" of radio-frequency energy.)

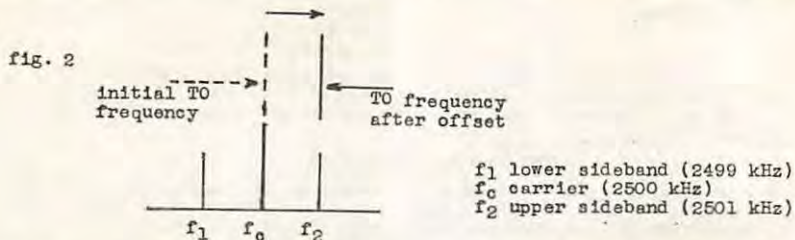
The second solution will probably be effective in limiting the level of stray radiation that reaches the receiver, assuming a separation of several metres between the monitor station and the receiving antenna. In the author's own experience, this solution was completely effective with a separation of 3 metres between the monitor station and receiving antenna. The difficulty with this solution is that it does not relate to the minimal distance likely to be encountered between the monitor station and a loop antenna. A Space Magnet may be relatively insensitive to stray radiation, as it is designed to respond only to the magnetic component of a passing radio wave while ignoring the electrostatic field, the mode by which the stray radiation is probably radiated.

## OTHER TYPICAL USES FOR THE PFM MONITOR STATION

**TT frequency measurement.** It is simple to determine the unknown frequency of a test tone that is being transmitted by a broadcast station. This is accomplished by measuring first the station carrier frequency, recording that quantity, and then measuring the frequency of either sideband. The difference in frequency between either sideband and the carrier is equal to the frequency of the test tone.

To measure the frequency of either sideband, it is possible to take one of three approaches. The first is to zero-beat the TO with either sideband. After measuring the carrier frequency, and without altering the variable attenuator setting, carefully increase or decrease the TO frequency until it is found to cause an SAH with either sideband. This will occur when the TO frequency is offset from the carrier frequency by an amount equal to the test-tone frequency (typically 400, 500, or 1000 Hz). To illustrate, consider a typical case of a station operating on 2500 kHz, which is transmitting a test tone of 1000 Hz:





Two sidebands, 2499 kHz and 2501 kHz, are generated by the modulation process and transmitted, along with the carrier, as illustrated in figure 1. In figure 2, the TO is brought to zero-beat with the station carrier, as shown. At this juncture, the counter should read out 2500.000 kHz. Then the TO frequency is varied upwards until it is approximately equal to the frequency of the upper sideband, at which time there would appear an SAH on the receiver carrier meter. The TO frequency vernier would be minutely adjusted to bring this SAH to zero, at which time the counter would read out 2501.000 kHz. To determine the test-tone frequency, subtract the carrier frequency from the upper sideband frequency, i.e. 2501.000-2500.000 equals 1.000 kHz, or the test-tone frequency (1000 Hz).

The second approach is to measure the carrier frequency as in the first approach, and then, while listening to the frequency of the heterodyne that is introduced by detuning the TO from zero-beat with the station carrier, adjust the TO frequency until the heterodyne formed by the TO and the carrier is heard to be equal in frequency (or pitch) to that of the test tone. At this instant, an SAH will be produced which can be brought to zero-beat by minutely adjusting the TO frequency vernier. The TO frequency thereby becomes equal to whichever sideband is zero-beat.

The third approach requires a highly selective receiver for accomplishment. Invoking the receiver's maximum selectivity, return the receiver to either sideband at which time the test tone will become inaudible and the sideband selected alone will be apparent. The sideband may then be measured in frequency in the normal manner. Then tune the receiver to the carrier and measure its frequency. As before, the test-tone frequency is equal to the difference in frequency between either sideband and carrier.

All three approaches require recognition that sideband frequencies that are generated in the AM modulation process are discrete radio frequency energies that are transmitted simultaneously with the carrier, and that each sideband is individually measurable in frequency.

Frequency check measurements. With a carefully calibrated PFM station, the experienced MW monitor can accurately measure the frequency of a MW station, as can a frequency-monitoring service. Frequently, when faced with severe cochannel interference, a frequency-monitoring service will measure the frequencies of both sidebands of a broadcasting station which is modulating with a test-tone, and average the two to determine the carrier frequency. Such an option is available to the MW monitor. Correct measurement of test-tone modulation frequency and of the carrier frequency of a broadcast station which is conducting a frequency-check transmission, may be sufficient evidence for a cooperative chief engineer to issue a verification.

A similar opportunity may be available to both the MW and the SW monitor in recording the frequency error of a particular transmitter over a period of time (e.g. several days), for submission as evidence of reception for correlation with the records available to a chief engineer, for the issuance of a verification. The author recently received an unsolicited (but very much welcomed) verification for submission of a record of several days' measurements.

Heterodyne frequency measurement. Measurement of the frequency of a heterodyne is identical to measurement of a test-tone frequency, save that a heterodyne is created by the beating of two radio frequencies while test-tone modulation produces three frequencies (two sidebands and a carrier). If the monitor's receiver lacks sufficient selectivity to determine whether a particular tone on a broadcast channel is the result of modulation by some station or of an audible frequency difference between two station carriers, it can be determined by measuring frequencies that exist in the immediate vicinity of the channel. A test-tone broadcast would yield three related frequencies while a heterodyne would yield only two frequencies.

Receiver frequency spotting. The PFM equipment can be used as a most useful adjunct to a receiver with mediocre dial frequency calibration. In this application, the TO is set at a frequency which the monitor wishes to tune; and the receiver is tuned until the TO output is audible, thus tuning the receiver to the desired frequency exactly.

While using the PFM equipment in this function, it is necessary for the monitor to become acquainted somewhat with the overload characteristics of the receiver and the degrees of output produced by the TO at various settings of the TO variable attenuator.

This is necessary because in setting the TO variable attenuator for an excessively high output, spurious responses may be generated in the receiver which could be mistaken for the TO output frequency. Likewise, an insufficiently low setting of the TO variable attenuator may render the TO output obscure or inaudible. Experience is of value in determining the optimum TO variable attenuator setting for frequency-spotting applications.

Some TOs have facilities for amplitude-modulating the TO output with a test-tone of some frequency, typically 400 Hz or 1000 Hz. So modulated, a TO output frequency will become more conspicuous for frequency spotting purposes.

When modulating a TO for frequency spotting, increase the percentage of modulation of the TO incrementally to maximum while observing the counter readout. At some high degree of modulation, it will probably be found that the counter readout will become erratic and unstable. Note or record this degree of modulation and avoid advancing the modulation control to this setting. Avoid using the modulation function of the TO while making frequency measurements.

#### ERRORS INHERENT IN PFM

There are certain sources of error inherent in the PFM process. If these sources of error are recognized and understood, they can be minimized.

Time-base error. Reviewing the brief description of a digital frequency counter presented in the beginning of this article, it will be remembered that the time base determines the period of time that the electronic gate is open. In a hypothetical case, the electronic gate is opened for a precise period of one second. If an input of exactly one megahertz (one megacycle per second) were applied to the input of the counter, then exactly one million cycles would transit the gate, to be counted by the electronic counting devices, and displayed on the counter readout as a count of 1,000,000 Hz (or 1,000.000 kHz, depending on the placement of the decimal point). If the gate period is changed to precisely 10 seconds, then exactly ten million cycles would transit the gate to be counted and displayed as 10,000,000. Depending on the placement of the decimal point, this would be read as 1,000,000.0 Hz, or as 1,000.0000 kHz, with the least significant digit (the digit to the extreme right, abbreviated LSD) representing tenths of a Hertz (the LSD represents one-Hertz units in the case of a one-second gate period).

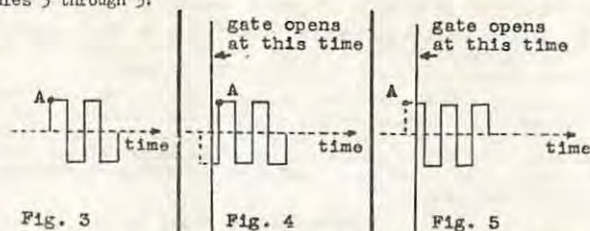
If the gate period were not exactly one second in duration, the number of cycles passed to the counting devices would not be exactly one million. Since the gate period is controlled by the time base, an error in the time-base frequency will cause an error in the number of cycles counted. The error in the count (as averaged over a number of counts) will be proportional to the error in the time-base frequency. Obviously then, the time-base frequency must be a very closely controlled quantity. Generally it is, but beware of the counter whose time base is controlled by the 60 Hz, power-mains frequency, the short-term stability of which is much too poor for our purposes. Counters reviewed later in this article will not possess this class of time-base.

In order to be able to perform PFMs of an accuracy approaching 1 Hz in the medium-wave band, and 5 Hz in the shortwave bands, the stability of the time base must be about twice to 10 times the desired readout accuracy. Since an average of 1 Hz at 1 MHz in the mediumwave band is the goal (stated as one part per million, or 1 ppm as abbreviated), then a time-base stability of 0.1 ppm (or reated as one part in ten million) is indicated. Fortunately, such a stability is achieved by the time-bases of even some of the simplest counters. In order to achieve approximately 1 Hz accuracy in the 11 metre shortwave band, a time-base stability of one part in 300 million (or 0.003 ppm) is indicated. Unfortunately, a counter whose time-base can achieve this stability would be expensive, so the monitor will have to be contented with impaired accuracy at those frequencies. An accuracy of 50 Hz in the 11 metre band might be considered a worst-case figure. Experience indicates that an accuracy of about 10 Hz is feasible in that region.

Time-base error is minimized by careful calibration of the time base and by a counter warm-up period of at least one-half hour before use. Since most counters either have a time base whose frequency is 1 MHz, or have a calibration output of 1 MHz, calibration is facilitated by observing the beat frequency between the harmonic of the time-base and one of the frequencies transmitted by WWV, WWVH, JJY, et. al. In using a time and frequency standard station for calibration, select the highest standard station frequency that is audible consistently in your area (usually 10 MHz during the winter and 15 or 20 MHz during the summer) and adjust the timebase of the counter for slowest SAH against the standard station (when calibrating a counter time base, a warm-up period of at least one hour prior to calibration is necessary).

Digitalization error. Beside an error in time-base frequency which over several counts will cause a proportional error in the counter readout, another source of error inherent to digital counters is digitalization error. Digital counters are on/off devices which only respond to a specific point on an input waveform. Since the counter gate may open at a random time in relationship to the frequency that is to pass through it (remember that the gate is only required to remain open for a specific period of time), there is an uncertainty as to which portion of the waveform of the incoming frequency will first appear when the gate is first opened; and so whether or not the specific portion of the waveform that triggers the counting devices will have already passed.

To illustrate, assume that the counting devices only respond to that portion of the incoming wave form (the square waveform is the appearance that the TO waveform will have after passing through the counter input preconditioning circuitry) that is marked "A" in the following figures 3 through 5:

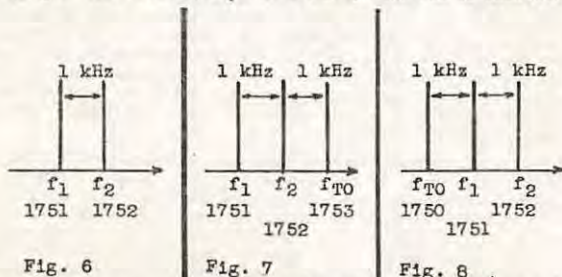


If, as in figure 4, point "A" of the first cycle of the incoming waveform just passed by the gate, has yet to arrive, the counting devices will be able to count it as it passes. If, as in figure 5, point "A" has already passed when the gate opens, the counting devices will be unable to count it. The result is that, to take the example of a 1 MHz input frequency, the counting devices may count 999,999 Hz, 1,000,000 Hz, or 1,000,001 Hz. This uncertainty in the LSD (the digit to the extreme right) is a manifestation of the digitalization error. There will always be this  $\pm 1$  count uncertainty inherent in any counter that lacks a synchronized gate (the case with most of the counters that the DXer is likely to acquire). Since plus-or-minus one count out of a frequency of 100,000 Hz is a greater percentage of that frequency (0.001%) than it is of 1,000,000 Hz (0.0001%), or 10,000,000 Hz (0.00001%), this error is of greater consequence at a lower frequency than it is at a higher frequency. In this respect, a counter's accuracy increases with frequency (disregarding time-base error and assuming that we do not exceed the counter's cut-off frequency, i.e. that frequency above which the counter ceases to count). In order to reduce the percentage of the digitalization error at lower frequencies, we can increase the gate period (for example from one second to ten seconds, or even to 100 seconds) and so minimize the digitalization error as a percentage of the total number of cycles counted. Likewise, we can make a series of independent measurements and rely on statistical probability to average out the error. For mediumwave FFM's, unless a counter with a ten-second gate (and a TO of correspondingly greater stability) is available, we must rely on making several measurements and averaging the individual results. For shortwave FFM's, the digitalization error is about proportional to the frequency to be measured. At 10 MHz, it becomes nearly negligible.

Synchronization Error. Also termed zero-beat error, this error is caused by the lack of a perfect zero-beat between the TO frequency and the signal of unknown frequency. While a perfect zero-beat, i.e. a perfect synchronization in frequency between the TO and the unknown frequency, is a practical impossibility, an error of 0.1 to 0.25 Hz is an easily attained minimum at mediumwave frequencies. The error at shortwave frequencies is apt to be greater, perhaps 0.5 Hz without special care. This is true because the relatively rapid fade characteristics of shortwave signals, especially those that have been propagated via a polar or near polar path, tend to obscure the zero-beat.

Lacking an oscilloscope with long-term luminescent phosphor, or a strip recorder, for use as an indicating device (block 5 of the basic heterodyne frequency measurement system), one must depend on experience and multiple measurements to reduce synchronization error to a reasonable minimum (about 0.25 Hz on mediumwave, and 0.75 Hz on shortwave).

Audio imaging. A possible source of error, especially for the inexperienced monitor, is audio imaging. Audio images are most likely to occur when attempting to FFM the frequencies of two stations which are heterodyning one another with a resultant carrier beat in the audio-frequency range. This is best explained through the aid of illustrations:



In figure 6, two stations, one on 1751 kHz, and another on 1752 kHz, are heterodyning one another. Since they are on frequencies separated by 1 kHz, the heterodyne is 1 kHz. In figure 7, the TO frequency (1753 kHz) has been brought into the vicinity of the pair. Since

the frequency of the TO ( $f_{TO}$ ) has been brought to 1 kHz of 1752 kHz ( $f_2$ ), there will also be set up a heterodyne of 1 kHz between  $f_{TO}$  and  $f_2$ . In addition, an audible beatnote will be generated by the difference in frequency between the first 1 kHz heterodyne (between  $f_1$  and  $f_2$ ) and the second 1 kHz heterodyne (between  $f_2$  and  $f_{TO}$ ). In figure 8, the same situation exists, the only difference is that the additional 1 kHz heterodyne is generated by  $f_{TO}$  (on 1750 kHz) and  $f_1$  (on 1751 kHz). Here again, the two 1 kHz heterodynes will interact to generate a second beat. In either case, the audible beat between heterodynes can be brought to zero; however, in both cases, the TO frequency will be offset from either station frequency by an amount equal to the difference in frequency between the two initial heterodyning signals.

In this condition, the TO frequency forms a mirror image of the alternate frequency (with respect to the middle frequency, i.e. the frequency between the mirror image frequencies). In figure 7,  $f_{TO}$  is the image frequency of  $f_1$ ; in figure 8,  $f_{TO}$  is the image frequency of  $f_2$ .

See those paragraphs entitled "TT frequency measurements" and "heterodyne frequency measurement" for advice on avoiding errors due to audio imaging. Also refer to the following paragraph for further advice on avoidance of errors. An additional aid in this circumstance is to observe the indicating device (block 5). It will be found that the indicating device will register an SAH when the TO is brought within about 10 Hz of either 1751 or 1752 kHz, but an SAH will be relatively weak or lacking entirely when an audio image occurs.

**SAH obscuration.** An additional problem in PFM is that of SAH obscuration. In this situation, an SAH or SAHs already exist on a channel as the result of interaction between carriers. Attempting to zero-beat the TO frequency with any of the interfering carriers will be impeded by the pre-existing SAH(s). At mediumwave frequencies, it is possible to separate SAHing signals on a frequency by use of a directional antenna, usually a loop antenna. Another approach is to quickly PFM one of the frequencies as the other fades, and vice-versa. This approach is more feasible at mediumwave frequencies where the fading period is longer and the relatively lengthy fadeout of one of the carriers facilitates PFMing the other.

(Since Mr. Taylor's article is rather long, we will break it here and present the remainder, including a discussion of equipment, next month.-JAL.)

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## Radio 4VEH

"THE VOICE OF HAITI" by Greg Ravenhorst  
Hollandale, MN

Radio 4VEH, which is owned by OMS International, began its career over the airwaves in June of 1950, and continued for the next 8 years on a very sporadic schedule of broadcasting. Since then, fortunes have changed, and 4VEH has grown, and accordingly calls itself, "The Voice of Haiti". Today, with a combined power of 27,000 watts, 4VEH broadcasts on 6 frequencies in 4 languages, but mainly in Spanish, considering that for every 12 potential English listeners, there are 1300 potential Spanish listeners.

Approximately 40 people work at Radio 4VEH, the majority of which are from Haiti. The frequencies of 1035, 3340, 6120, 9770, and 11835 are used for English and Spanish broadcasts. The frequencies of 840 and 3340 are used for French and Creole broadcasts. 4VEH verifies promptly, but they appreciate it if return postage is sent. For their up-to-date program schedule, write: Radio 4VEH, Box 1, Cap-Haitien, Haiti. This is a station that many of our new listeners should hear rather easily.

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## WARC

THE THIRD MEETING OF THE INTERNATIONAL BROADCASTING SERVICE GROUP

WARC-1979, 25 February, 1976. report from Larry Magne, Philadelphia PA

The International Broadcasting Service Group held its third meeting on 25 February, 1976, at the offices of the FCC in Washington. Present were Stanley Leinwoll (chairperson) RFE/RL; William E. "Ted" Haney, FEBC; Roger Legge, International Frequency Management Service; Lawrence Magne, NASWA; Lillian Martin, Motorola, Inc.; L. M. Palmer, FCC; L. R. Raish, private attorney; Steve Selwyn, FCC; Carl Smith, Smith Electronics, Inc.; Lloyd Smith, FCC; David Sumner, ARRL; Frank Williams, FCC. Before going into the agenda for the meeting, the Chairperson advised that he had received a letter from a special interest source (an unidentified NASWA member) requesting that the Service Group take certain actions of a nature contrary to the Radio Regulations. The Chairperson made clear his intention not to act on the proposal he had received, stating that the group was established to handle technical matters.

"Housekeeping" business was taken care of and was followed by a lengthy discussion recognizing the difficulty of providing justification for additional requirements for international broadcasting when the U.S. had only three or four international broadcasters. It was agreed that, never the less, that the U.S. could not "stick its lead in the sand" with regards to activities going on in the rest of the world. The Chairperson then asked if monitoring data could be assembled, particularly of interference situations, that would support additional spectrum allocations. The FEBC representative confirmed that he could

provide the type of data required. The Chairperson then said that he hoped that other private interests could do likewise. Mr. Selwyn (FCC) agreed to contact some of the private broadcasting interests to see if they would help with the compilation of data.

Kim Elliott, speaking for the Technical Task Force, reminded the Group of some existing facts. Shortwave listeners generally use "cheap sets" with the consequent selectivity problem. As a practical matter, the AM double side-band mode must continue to be used. Then followed a long discussion on propagation, engineering approaches, back-scatter, two frequency adjacent band operations. The FCC representatives, Messrs. Williams and Palmer, placed great emphasis on the need for technical standards in planning ahead for the 1979 GWAAC and beyond. Use of narrower bands was cited by them as an example of such standards. In their view, the continued use of double side-band will require a lot of explaining between now and 1979.

The Chairperson warned against being overly idealistic on standards, saying "let's concentrate on what technical standards are needed". Mr. Magne suggested that the potential for fixed communications and broadcasting sharing the same bands not be overlooked. Some countries already use the same transmitters for both sources, going back and forth from fixed to broadcasting. Over the years, as fixed telecommunications vacates its HF bands, they would become de facto broadcast bands.

Changing the subject, the Chairperson asked if the Present Usage Task Force had anything to report. Mr. Legge, the Chairperson, said no details were ready yet, but that "we all know the broadcast bands are overcrowded". The next meeting was scheduled for Tuesday, 4 May, at 10:00 A.M.

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### Solar Variability: Is the Sun an Inconstant Star?

A review of an article appearing in *Science*, 19 March 1976, by Allen L. Hammond and based on a symposium held at AAAS Boston in February. Review by J. A. Lineback

Data drawn from ancient astronomical records and carbon-14 content of tree rings shows that the years 1645-1715 AD were a period of unusually low solar activity. It is now suggested that the sun has not plodded routinely through the 22 year solar cycle for eons as once supposed. Rather, the sun has undergone several significant changes in its magnetic activity and perhaps its output of energy. If so, then future changes in solar activity cannot be ruled out, with consequences to the condition of the plasmasphere, the ionosphere, and perhaps the earth's climate.

Sunspots have been observed since 1610, but during 1645-1715, few were recorded and several years in a row went by with none recorded. These ancient accounts are believed to be reliable. The records of the same time period record low auroral activity and the absence of streamers in the solar corona (caused by solar magnetic activity) during solar eclipses.

The carbon-14 (created in the air by solar radiation) content of tree rings is low in those formed between 1640 and 1720 AD, and also 1460 to 1550 AD. Carbon-14 content is high between 1100 and 1250 AD, a time when many sunspots were recorded by Oriental astronomers. Thus, the solar activity during the last 150 years of intense observation is not necessarily typical of long term solar conditions.

The period 1645 to 1715 also corresponds to the coldest years of the "little ice age" that drove the Vikings out of Greenland and the vineyards out of northern Europe. Thus, solar energy output may also have been reduced.

Many questions remain in relating these events to a predictive model of solar-terrestrial conditions. The chief concern regarding shortwave radio is that reduced solar activity could reduce ionization in the ionosphere, making the propagation of signals difficult. As yet there is no evidence that the solar cycles of the past 150 years are about to end, but at least such an event is now considered possible by many solar physicists.

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## FEBEC

The FAR EAST BROADCASTING COMPANY, by Greg Ravenhorst  
Hollandale, MN

On June 4, 1948, the Far East Broadcasting Company came into being, when Radio DZAS began to broadcast from the Philippines. Since that time, FEBEC has grown into a very large organization of religious broadcasting stations, which currently numbers 22 mediumwave stations and 3 shortwave stations.

From San Francisco, KGEI's 250 kw transmitter sends the programs of the "Voice of Friendship" to Latin America and Asia in 6 languages. KGEI is the "powerhouse" of all of FEBEC's shortwave transmitters.

In 1948, after only 2 hours of broadcasting, the 1 kw transmitter in Manila went off the air due to overloaded circuits. This was soon repaired and today, from the town of Bocaue, five 50 kw transmitters take the place of the original transmitter and are used to broadcast to Russia, Asia, the Indian subcontinent, and Indonesia.

The third shortwave transmitter location is found in the Seychelles Islands. The Seychelles lie north of Madagascar, and here FEBC's sister organization, FEBA, operates two shortwave stations broadcasting to Asia, the Middle East, and Africa. I suppose that you could say that these three stations of the FEBC make up the "powerful triangle" upon which FEBC is based, and covers three continents.

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## In The News

Article below from the Denver Post,  
28 September 1975, via John Creamer

### Straddling the Hemispheres at Zero Degree Greenwich

**GREENWICH** England—Somewhere it is just a matter of packing.

Ready or not, here comes Greenwich. It is the place where every tourist plays the same camera game — in utter delight the visitor stands with one foot in the Western Hemisphere and the other foot in the Eastern while the shutter clicks.

On a map run your finger to zero longitude (the Prime Meridian) and then to the latitude that reads 41 degrees, 28 minutes and 39 seconds North. That, folks, is the spot where East meets West.

The place is Greenwich, a metropolitan borough of London where, on top of a hill at the old Royal Observatory, you will find the line that divides the hemispheres. This is the position from which Greenwich Mean Time is derived.

**THE LINE** splitting the two hemispheres is invisible, by this way. But in the forefront of the observatory in front of one of the buildings there is an embedded brass strip that runs up to the wall, ending at a sealed glass door. Everybody who comes to see for himself predictably has his photograph taken straddling the line with one foot in each hemisphere.

Even reporters have been known to do it. Because clocks in the world are set in relation to Greenwich Mean Time, when you get here don't let a minute go by. Can you think of a better place on earth to set your gun watch? You can either regulate your timepiece from a 24-hour clock on the wall outside the observatory or from one that is inside — which runs according to an atomic clock that is accurate down to thousands of millionths of a second.

**OKAY.** But why Greenwich?

It all began 300 years ago or so when King Charles II started the Royal Observatory, for which he appointed John Flamsteed as the Astronomer Royal. Out of an annual salary of approximately \$300, which wasn't always paid,

and with money from his own pocket, Britain's first astronomer had to buy parts to make his own equipment.

Hampered by the meager funds at his disposal, Flamsteed made the best of his situation and managed to get his instruments set up to study the moon and stars.

Nobody in that era had invented a clock accurate enough to tell sailors how far east or west they were, and Flamsteed sought ways to find a reliable method of calculating longitude.

To pursue this goal, he hired a 20-year-old youth by the name of Edmund Halley to go to the island of St. Helena to make precise measurements of the southern stars; it was there Halley who later discovered a comet named after him.

After succeeding Flamsteed as Britain's Astronomer Royal, Halley continued the research and began timing the pathways of the moon across the meridian in the hope that these observations someday would be useful in determining longitude at sea. They were.

**BECAUSE** Britain had done most of the pioneer work in this field at Greenwich, a decision was made to set 0 degrees at Greenwich, and since 1900 all countries have reckoned longitudes that way. Tomorrow, as local mean solar time depends on longitude, every nation quickly adopted Greenwich Mean Time for air and sea navigation.

Under the control of the British Admiralty, the Greenwich observatory has since 1955 carried on regular meteorological and magnetic observations and has made pictures of the sun almost every day since 1922.

In 1945, however, because of air pollution and the glare of London's ships at night from street lights and neon signs, officials started to relocate the observatory staff at Herstmonceux Castle in Sussex, where the atmosphere is better for telescope observations.

**GREENWICH** (pronounced, Green-itch, and

meaning "green dwelling") is the home of the National Maritime Museum and the Royal Naval College. King Henry VIII, Queen Mary and Queen Elizabeth I were born in Greenwich on the site of the royal residence, which is now a hospital.

Two of England's most renowned ships — the Cutty Sark and the Gipsy Moth IV — are

both dry docked at the local pier, and for a small fee you can visit and wander around the decks of these vessels.

But as far as the whole world is concerned, Greenwich is the place where time does stand still — because everyone knows that the village on the south bank of the Thames is marking time in the Mean-time.

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Does anyone have a Kenwood QR-666 shortwave receiver? If you do, how about an owners report for Shortwave Center? It would be appreciated.

Article below from Malaysian Digest, via Pitt McNeil, Washington DC.

## A DEAR AND LOYAL FRIEND OF SARAWAK

ON October 25 a "dear and loyal" friend of the Sarawak people turned 21. The friend, whose name is a household word in long-houses in the remote areas and modern homes in the State, is... **RADIO SARAWAK.**

Radio Sarawak (now Radio Malaysia Sarawak), which started off with a skeleton staff of 51 in 1954, now has 782 staff and is the biggest Radio Malaysia Station after Kuala Lumpur's.

It is a far cry from broadcasting 21 years ago. Its total air time then was 41½ hours a week. Today it goes on the air for 439 hours a week in all networks.

Against the State's difficult terrain and geographical setbacks, Radio Malaysia Sarawak has been and still is the only regular source of information and entertainment to a

### COMES OF AGE

vast majority of the population.

It is no surprise then that the transistor radio made its way to the ulu (remote) areas earlier than other modern invention.

Planning for a radio station in Sarawak started way back in 1951. The following year, the Council Nigri (State Council) gave the green light for its establishment.

Staff recruitment began in 1953 and the Radio office was then housed at present High Court building in Kuching.

### PROGRESS

The then Radio Sarawak went on the air officially on June 7, 1954.

The years after Sarawak's independence within Malaysia was the period when the Radio achieved rapid progress in all fields, especially in providing clear reception to the far corners of the State

through the establishment of regional stations.

Three such stations were set up in Limbang, Sibul and Miri. A transmitting station has been completed recently in Simanggang to beam programmes to the Second Division areas.

The period between 1964 and 1974 saw a significant jump in the number of staff — from 135 to 772. The air time increased from 145 to 439 hours a week in all networks.

Radio Malaysia Sarawak Director, Encik Salleh Askor, who started serving the Radio only six months after it went on the air in 1955, said a major step forward in the development of Radio Malaysia Sarawak was the relaying of programmes through the microwave, free from atmospheric interference.

Reports had been received, he added, of reception of the radio's programmes from as far as Finland and the United States. — Bernama.

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## the ionosphere and plasmasphere during geomagnetic storms

A review of present theory by T. B. Jones in the 1-8 January 1976 "Nature", abstracted by JAL

The interaction of the solar wind with the earth's outer environment involves complicated processes, many of which are not yet fully understood. Geomagnetic and ionospheric storms produced by enhancements of the solar wind give rise to major changes in the ionosphere and magnetosphere. These in turn, disrupt long range radio communications. Disturbances in the sun frequently produce an increase in the velocity and concentration of particles of the solar wind. When this enhanced wind reaches the earth, it modifies the magnetosphere. Included are increased auroral activity and marked changes in the electron density distribution in the ionosphere. The arrival of the enhanced solar wind compresses the geomagnetic field, which is observed as a sudden commencement geomagnetic storm. At the same time, the number of energetic particles in the magnetosphere increases as particles are injected into the magnetosphere by transport across the magnetic shells. The increased ring current is due to the particle enhancement and is responsible for the main phase of the storm. (See Particle diffusion in the radiation belts by Schulz, Lanzerott, and Roederer (Springer-Verlag, 1974).

Magnetic substorms also occur and have been the object of some controversy. During substorms energetic particles penetrate into the lower ionosphere where they produce ionization enhancements in both D and E regions. Geomagnetic storms also affect cyclonic activity in the troposphere. During 1976-1978 there will be an international cooperative effort to obtain more measurements of particle fluxes, magnetic field variations, and ionization changes during storms (International Magnetosphere Study).

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### Propagation Conditions

by Jerry A. Lineback

Two significant short geomagnetic storms took place during the past solar cycle. On 26 March, the A-index reached 90, the highest since July 1974. This was the A-peak of that cycle. A few days later, during the I-peak, geomagnetic activity reached 80. There was also a rather pronounced peak in solar activity during March, peaking on 21 March. The April solar cycle peaked at a lower level than the March cycle on 17 April. The next solar flux peak is expected 15 May. The A-peak of the April cycle was not very significant, occurring on 22 April after low magnetic activity from 15 to 20 April. The I peak is expected 29-30 April and the B-peak about 7 May. The next cycle will begin with a low in geomagnetic activity about 12-17 May followed by an A-peak about 19-20 May. Solar flux and geomagnetic activity are expected to be irregular in intensity and generally at low levels during the next few months. The possibility of large storms remain low, but it is not possible to predict whether a particular recurrent storm will peak at an A-index of 20 or 90.

Thanks again to all our contributors. Please keep the material for Shortwave Center coming. We continue to have need for short articles on shortwave broadcast stations and equipment reviews.

NASWA AWARDS PROGRAM REPORT

The first report of NASWA Awards recipients was given in the January 1976 issue. Since then, there have been a number of awards issued. This report covers the period from 1 January-31 March 1976. All awards are listed in chronological order of issue.

AFRICAN CONTINENTAL DXER

Bruce Churchill  
Joe DiLeo

AFRICAN CONTINENTAL DXPERT

Al Sizer

EUROPEAN CONTINENTAL DXER

Scott Newman  
Bob Underdown  
Wade Smith  
Ira E. Teitelbaum

SOUTH AMERICAN CONTINENTAL DXER

Joe DiLeo

NORTH AMERICAN CONTINENTAL DXER

John J. Moritz, Jr.  
James Koren

DXER DE PACIFICA

Bruce Churchill  
Joe DiLeo

ASIAN CONTINENTAL DXER

Bill Whitacre  
Bruce Churchill

WORLD WIDE DXER

Rex Wockner  
Eliot R. Strauss  
Wade Smith  
Bruce Barker  
David Fagnoli  
Ira E. Teitelbaum  
Dave Heimke  
Roger DeRoy  
R. A. Bettenhausen

DX CENTURIAN

Pitt McNeil  
Robert C. Wiles  
John Moritz Jr.

SENIOR DX CENTURIAN

Bruce Churchill

ALL CONTINENT QRP

Pitt McNeil 50 Kw

MASTER NIGERIAN DXER

Joe DiLeo

SENIOR SUBCONTINENTAL DXER

Richard T. Pistek

MASTER SUBCONTINENTAL DXER

Dan Henderson

MASTER SOVIET SPHERE DXER

Dan Henderson  
Richard T. Pistek

ORTF DXER

Al Miller  
Bruce Churchill

EMISSORA REGIONAL DXER

Bruce Churchill

ECCLESIASTIC DXER

Frank Orcutt  
Pat Tobin  
Byron Price  
John J. Moritz  
John Sgrulletta  
Robert C. Wiles

MAPLE LEAF DXER

Mildred Marshall  
Steven M. Kennedy

VOA DXER

Dan C. McCarthy

SENIOR INDONESIAN DXER

Al Sizer

This concludes this report of the Awards Program. We did have some additions as you can see--the majority of the awards went for WW DXer and Ecclesiastic DXer awards. Keep up the good work, DXers!

Some comments are in order about the QRP award. The certificates are for a total of 50, 25, 10, 5, and 2 Kw from a SW station in each of the 6 SW continents. That means that all 6 together must be 50, 25, 10, 5, or 2 Kw--- not each station being the numbers given above. In these days of high powered transmitters, this is indeed a feat-- it still can be done, however. I have received many suggestions for new awards. These are being processed and some new awards are in the works. Keep them coming!

Dan Henderson  
Chairman

# Listener's

•Editor: Glenn Hauser



IMPORTANT: Note new address - c/o WUOT, University of Tennessee  
232 C&E Building, Knoxville, TN 37916

## Notebook

**PROPER CREDIT** Other clubs and broadcasters desiring to use material from LN may do so provided due credit is given to the original reporter and NASWA. BBC Monitoring Service material is copyright, used by permission, not authorized for further dissemination. Thanks.

**ANGOLA** On 2/19 RFA Luanda was hrd for first time in Swahili, 1125 tune to 1130 French. On 2/26 at 1700 Info Minister proclaimed immediate takeover by the State of all privately owned radio stations, which for the time being would be required to relay Luanda news, but regional MPLA communique may be aired. It appears that this nationalization does not apply to R. Ecclesia and R. Diamang. Since the 10/75 bombing, Luanda SW xtrs on 9660, 7165 and 6175 have not been heard; 11820, off air for several weeks after irregularity; fairly reliable, but poorly received see 9535 7245 4820 3375 (BECMS; last part 4/1)

**AUSTRIA** ORF is using a new IS, first noticed 3/23; the melody is the same (Blue Danube) but now a guitar is used instead of an orchestra (Bruce Boomer, Nutter Fort WV)

**BANGLADESH** RB has introduced special pgs for the tribal population, broadcast from the various transmitting centres of RB. On 4/11 Dacca began pgs for Caro tribesmen, while Chittagong has already been broadcasting programs for hill tribes. (BECMS 4/15)

**BOLIVIA** R. Camargo is a new station on 3390, nom. sked 2245-0300, but s/on somewhat later. On 4808, R. La Voz de la Frontera, Puerto Suarez, Santa Cruz, is new on this freq since 4/1 full sked not yet established, hrd between 1030 and 0200; power 1 kw or less. The unlisted in WRTH, has been active at least two years on an unknown freq. Seems to have a link with R. Moris, Montero. 4783, R. Ballivián noted after 0030; 4853, R. Centenario back after absence of many weeks, daily 1000 (Sun. 1100)-0400 (Tony Jones, Asunción, Paraguay, direct & via HU 4/17) R. Trópico, Trinidad, list 3220, heard approx. 4760-70 at 100 (Hozacio A. Negro, Montevideo, Uruguay, via SGDX 3/16) R. Cruz del Sur listed 7 stns in network, when heard on 4875 at 2330; R. Nuevo Mundo, Sucre; R. Tusari, Cochabamba; R. Oriental, Santa Cruz; R. Kollasuyo, Potosí; R. Avaros de Riberalta, Beni; R. Mamoré, Guaymaserin and R. Cananavi, La Paz (BECMS 3/25; spellings theirs /or FBIS/; accents added where known by gh)

**BRAZIL** R. Educadora do Xapuri now varying 3410-13, ex 3403. R. Ribeirão Preto has stabilized its xtr, back on nom. 15415; also seems on reg. sked, after months of irregular activity (Tony Jones, 4/6) R. Tibaira on new 4976 (per Caversham); R. Tupi on new 15172 (per Noel Green) (BEC WRC 4/14 via gh) See also DTB... (gh)

**CAMEROON** Garoua-5010 hrd 4/4 Sunday \*0430, vernacular to 0500 French; WRTH says \*0500 (Jones)

**COLOMBIA** Rdif. Nacional measured on 9681.89 circa 0315 4/25 (gh w/Charles A. Taylor, IN)

**CHILE** R. Diego de Almagro is yet another name for CE965, heard 0055-0257\* on 9648.3, ex-Tungay (Dense Lynneberg, NZ, NZDXT 3/76) R. Portales, unheard since 11/13 was recently hrd on 9970; resumed its 1100-1150 newscast, including 5-min economic commentary (BECMS 3/25)

**EGYPT** R. Cairo on many experimental freqs: 3/18 Arabic, Spanish 0005-0130 on 7265; same day in Arabic 6200 at 0225-0300; 3/19 1545-1615 Farsi on 9580; 3/21 at 1550 Urdu 9630; 3/23 0130-0230 French then Arabic 9610; 3/23 2330 Portuguese 11770; 3/20 0125-0300 French, Arabic 6055; 4/4 and regularly at 1600 Swahili 11940; (David Kormick, Prescott, England) I think underlined times in this case mean sign off; please use \*/\* system? (gh)

**ETHIOPIA** R. Ethiopia operates 2 x 100 kw xtrs on 9610 and 6185 for its HS: Amharic; W. 0400-0530, 1030-1200 (Sat 1300), 1700-1900. Sun. 0500-0900, 1030-1400, 1700-1900. Somali; W. 0330-0400, 1200-1300 (Sat 1400-1430); Sun. 0330-0430, all on 6185 only. Afar; Sun. 0430-0500; W. 1400-1500 (Sat 1430-1500) 6185 only. Arabic; W 1300-1400, Sun. 1400-1500 on both. Tigriña 1530-1600 and Oromo 1600-1700 both daily, both on both (BECMS 2/76) 9611-12 v (gh)

**FINLAND** R. Finland's news on 3/24 said a large strike sked for 3/25 would interrupt SWBC. As of 4/5, station hasn't been heard after a few casual tune ins (Bruce Boomer, WV)

**FRANCE** RFI's French relay of France-Inter to NAM changed to an hour earlier 3/29 due to DST there, now at 1100-1600 (Hans J. Rakow, Sherwood Park, Alta) actually to 1610\*, on 15265 (gh) TWR-Monaco feeders to MW stn in Cyprus operate on 12300 and 10225 at 1520-1825 (BECWRC 4/21)

**HONDURAS** R. Satellite on 4820 0315 4/17 IDs, cuckoo clock, disco music, Teguci mentions. (Pitt McNeil, DC, via TDXN) 0513 past 0600 tone 4/11; is this the HRVQ xtr in use after hours? (Alan Laves, Austin TX, TDXN) Lang not given; but Satellite is Spanish, (gh)

**IRAQ** On 4/1 RB's HS pgs in Arabic "Voice of the Arab Gulf" increased to 1730-1830 (BBC MS)

**KUWAIT** R. Kuwait's Arabic HS observed sked: 0225-0400 on 9650; 0400-0735 on 9650 9520 6055; 0735-0815 on 9650; 0815-1000 on 11940 11825 9650 7120; 1000-1505 on 15415 11940 9650 7120; 1000-1130 on 11825; 1505-1600 on 9650; 1600-2215 on 9650 6055; 1600-1800. 1830-2215 on 9715. Per annt some are beamed: 15415, 9715 (1830-2215) to Arab Maghrib; 11940, 9715 (1600-1800) 9520 to Arab East; 11825 to Europe; 9650 7120 6055 to Arab Gulf & Arab Peninsula (BECMS 4/8)

**MOZAMBIQUE** RM fq annt before 0400; Pgs "A" 9620 6115 4865 3210; "B" on provincial Belra-Dondo, Nampula, Zambézia nets. Not included was 11820 on which monitored (BECMS 4/1)

**NEPAL** R. Nepal heard on 3330 // 3425 5007, probably the 5 kw backup xtr. There has been talk of a second pgn on a new 90 mb freq, and maybe this is an experiment for it. (John Campbell, in the bush north of Singapore, via NU 3/27)

**NIGER** Niamey has been changing skeds. Hrd on a Sun on 9705 0550-0630 tune out, list \*0700; On 5020 from as early as 0550 past 0630 daily over Solomon; list 0630\*. I don't know however if these are permanent changes though! (Mike Willis, Hampton, Victoria, Australia)

**OMAN** Muscat HS in Arabic on 11890 now stays until 1350\* stead 1315\* and 6175 \*1400 ex-\*1350 (BBCMS 4/15)

**PAPUA NEW GUINEA** Recent letter from R. Eastern Highlands, Goroka says their transmission time has been reduced to 5 hours per day (Bob Bodell, Portland OR)

**PORTUGAL/MALTA** Adventist World Radio was on the point of ceasing all operations at the end of last year but has now been granted funds for one more year. Response to their non-Bible thumping broadcasts in Eastern European languages has been negligible with some language sections only receiving one or two letters a month. They are to produce some promotional audio-visual material in hopes of getting support from private individuals in the US. There have been drastic cutbacks in programming. (SWMS 3/76)

**RWANDA** DW Kigali now receives signals via the Franco-German satellite *Symphonie* (Frankfurter Rundschau 1/29 via Hans J. Rakow, Alts) I had suspected this; Kigali audio does not show the degraded SW off-air relay quality that e.g. RM-Bonaire does (gh)

**SA'UDI ARABIA** Riyadh Radio has changed a number of frequencies: 1230-1500 5990 ex-5985  
0500-0815 7190 ex-7250 0830-1600 9580 ex-9740 1530-1900 11795 ex-11780  
0820-1535 11890 ex-11800 1000-1530 9702 ex-9720 (BBC MS 3/18)

**SEYCHELLES** FEBA in Arabic 1800-1900 on new 9530 (their new tx?), hrd // 11715. In Farai at 1700 on 9530 // 11810 (new freq for this program) (David Kernick, Prescott, Mzseaside)

**SPAIN** New RTVE Spanish pgn to Near East noted 1910 on 11930, different pgn on 11920 etc. RTVE Canarias \*1925 local ID in Spanish, 1930 Arabic // 9600, seems ex-7195. (David Kernick) (I think you omitted the RTVE Canarias freq itself; are the ones mentioned Spain? gh)

**TADZHIK SSR** 7135 hrd on RM LA sv 2230-0400 during winter, QSLed as Dushanbe. Off since 3/7. 7300 hrd currently on 2130 RM English to Afr, also QSLed as Dushanbe (Roger Legge, VA)

**TAHITI** Explaining the het when other 15170 stations are in is this PFM: 15169.905 plus or minus 3 Hz when measured 4/25 0345 (gh with Charles A. Taylor, Indianapolis IN)

**TURKISH SSR** 15185 hrd on RM Indonesian 1130-1230\* during winter, QSLed as Ashkhabad. IFRB lists Irkutsk on 15185 from 3/7 (Roger Legge, McLean VA)

**USSR** All R. Moscow Vietnamese pgn's are now addressed specifically to either N or S Vietnam as follows ( $\frac{1}{2}$ -hr xmas). To North Vietnam: 1000, 1100, 1130, 1430, 1500. To South Vietnam: 1030, 1200, 1300, 1390, 1400 (BBCMS 3/4) What now, with late April unification steps? (gh)

**WESTERN SAHARA** Rabat Radio announced 2/27 that Al-'Uyun now transmits at 0800-0900 1130-1330, 1800-2330, evening period thus 2 $\frac{1}{2}$ -hour extended (BBCMS 3/4) Part of Morocco now (gh)

**YEMEN SOUTH** R. of the PDYR, al-Hiswah xtrs HS in Arabic, also intended for reception a-broad sked 0300-0530 on 7190 5970 and 5060; 1100-2200 (Fri from 0300) also on 11770; 7190 breaks daily at 1700-1715 and 1845-1900. Includes 1615-1700 "Voice of the Omani Revolution" presented by PFLO including irregularly 1645-1655 Parsi for Iranian soldiers fighting in Oman (BBCMS 3/76) Not much about Iranians fighting in Oman on American media! (gh)

**UNID** African station on 4837 at 0600 (or is that 0800? gh) with French and African music; could this be Mali on the move. Not regular, as is long path signal (Mike Willis, Victoria)

**The Situation BURMA** BBS HS sked 0030-0230 on 7185, 0330-? 9725, 0930-1600 on 5040. On Sundays there is no 0230-0330 break but BBCMS is ambiguous on frequency changeover that day. Nationalities Programmes on 4725 are \*1000 Kachin, 1030 Kayah 1100 Shan Karen, 1130 Pwo Karen, 1200 Chin, 1230 Mon, 1300 Arakanese, 1330 Burmese, 1345-1415\* Shaw. These times are rotated every two weeks (BBCMS 3/76) Now what does that mean? (gh)

**CHINA** R. Peking revised freq usage effective 3/20 for HS First Pgm; \*Tue 15230 2223-0930  
3220 1233-1735 4460 0845-1735 4460 2000-2220 5320 2000-2300 7935 2000-2135 15550 0130-0845  
2000-2100 0933-1735 5320 0848-1735 7935 1043-1735 11330 2103-1230 15590 2338-1040  
Second Pgm: \*Wed/Fri; other frequencies continue without change, for both programs  
3290 1203-1600 4250 0950-1600 4250 2100-2400 5075 2100-0130 10260 2243-1200 (BBC  
2100-2240 1033-1600 5075 0903-1600 7190 0003-1030 15450 0133-0900 MS)

**INDONESIA** We discovered a new station at Pematang Siantar, during our Indonesian tour 2/5; R. Niaga dan Budaya Simalungun (RBS), a non-governmental station on 3514, sked 2255-0200, 0355-0630, 0755-1100, 1155-1530; Jakarta news relay 0000, 0500, 0600, 1200, 1500; 500 watts. Address Jalan Bolakaki 17, PO Box 26, Pematang Siantar (Sumatra); back in Australia, I hear an Indo on 3512, but I think it's another one. RBS has been on the air since 10/10/75. There are 3 other SW stations in P.S. (no MW there), R. Veteran, R. Kencana and R. Panti, which are private commercial outlets. RBS name translates in full as Non-government radio station Radio Commerce & Culture of Simalungun Ltd. (David Foster, DUDXS) Jakarta HS reports that there are 477 radio xtrs in the country, excluding RRI operations: 347 commercial, 38 non-commercial and 92 regional Government. RRI operates 48. (BBCMS 3/25) 11855 is a new fq for RRI Jayapura, noted 0900-1000 (Bob Padula, R. Australia DX 4/18 via gh)

**KOREA SOUTH** R. Korea's FS on WRTH-unlisted 7150 // 9640 at 0800 Indo, 0830 Chinese, 0900 Japanese to 1000 with 2-minute break at 0929-0930. This may be incomplete; Re Padula's remark on 11860; I heard them testing here in English/French at 0218 2/2 (Gib Junqua, Osaka Japan)

**LAOS** Vientiane HS 2/29 announced this sked for First Network; 0400-0600 on 6130; 0800-1430 and 2230-0200 on 6130 and 3900 (BBCMS) NRBS has been heard in Japan to 1430\* on 4660 5160 and 6200 (R. Australia DX 4/11 via Bob Bodell, Portland OR)

(MORE SEA) VIETNAM Hanoi on new 3997v; yes, no longer Viet Bac; 1300-1500, and on 4996 (Mike Willis, Victoria) I'm not sure there is any proof that Viet Bac and Tay Bac regional xmas emanated from anywhere but Hanoi (gh) VOV First Network sked \*2100-1600\* (ex 1700\*) on 3999 4932v 6450v 7375v 10060v. Second Net at \*0900-1600\* on 4994 6428v 7416 7470 10222. (Isao Ugusa, Kobe, Japan) Contradictory is this version: First Net 2055-1600; freq usage is 10060 0000-1600 (announced from 2055); 7375 6450 4932 at 2055-1600; 3998 at 2055-2400, 1230-1600. Second Net 2245-1600 on 10225 9887 7470 6430 4995 (BBCMS 4/15) R. Saigon Liberation noted 0200-1500 on 7244 9620; no use of 7175 6165 or 4877, tho these may well reappear soon. Last month I noted Saigon // Hanoi freq; this is no longer the case (Willis) Liberation R. is traced at \*2200-7 and \*0800-1600\* on 6165 7245 9620 (Ugusa)

**Clandestine Cranny AUSTRALASIA** (Cf Apr LN-4 bottom) 7118.2 is an Indonesian; 0855 flute IS to 1015 tune out; Carillon IS at 0928; 0942 choral anthem per usual format of Indos. (Ed Shaw, Lexington KY, NU 3/27) **New Hebrides** 7118, Voice of Nagrlamel, 0930-1000\* in Bislama (N.H. Pidgin). May still be on but not heard since early February (DUDDS bandsurvey 3/76) **Tinor** R. Dfl1, 3542v, \*0900-1500\*. Crude IF suggests it is in E. Tinor, probably Dfl1, still occupied by Indo troops. Evidence is that xtr and facilities were set up by the Indo navy and that studio staff partly ex-RI Kupang and partly "tame" locals who do the Portuguese talking. Some days there is Indo 1300-1330, mostly simple language lessons. Record requests fill most of remaining time but here is news, many on half hr, as 1330 and "commentaries" favoring friendship with Indonesia and unity of the Tinors and praise of the Provisional govt, which controls about 20% of the people. In dual lang. s/off, and 3550 in Portuguese but 3500 in Indo. Some pgs directed to regional listeners have "radio" in their titles, e.g. "Programa de R. Maubara", "Programa de R. Atambua" which may cause ID confusion. No sign of Fretilin broadcasts now. Correct name for their old station was R. Baselau, a reference to the title of their favorite revolutionary song. (John Campbell, Newcastle, Australia, via NU 4.3) 3550v stn has always been anti-Fretilin since first noted 11/75, and on air daily. Original ID I interpreted as R. Rebelião. Fretilin controlled Dfl1 until 12/8 or 12/9 whereupon stn changed name to R. Dfl1 as pro-Indos took over that town. At no time since 3550 first noted has RRI Kupang been heard on 3385 (Robert Yeo, Doncaster, Victoria, via NU 4/17) However, definite Kupang ID on 3385 4/7 (Dan Henderson, Deception Pass, Whidbey Is., WA via NU) **EURASIA** Red Army R Stn also uses 9600 around 1500-1600, approx 10 min program repeated; irregular (Isao Ugusa, Higashinada, Kobe, Japan) **MIDEAST** See Yemen South on LN-2 **Radio-ye Payk-e Iran** (Radio Iran Courier), pro-communist clandestine, pro-Soviet, attacks the Shah, Iranian Government, western interests in Iran, including CENTO. Also broadcasts statements and communiqués of the Tudeh Party of Iran (communist), probably transmitting from Sofia. On 11695 11415 9560 1430 Kurdish, 1500 Azerbaijani, 1530-1620 Persian; on 11695 and 11415 1620 Kurdish, 1650 Azerbaijani, 1720-1810 Persian. On Fridays all programs are in Persian (BBCMS 2/76) 11695 easily heard in MA (gh) **Voice of the Communist Party of Turkey** was announced by pro-communist clandest. "Our Radio" on 3/27 to operate from 4/1 daily at 0810 on 9585 and 6200, and on Wednesdays at 2030 on 908 kHz. But the 0810 pgs has been broadcast on Sun & Tue and 2030 on Thurs (BBCMS) A new program, "On the Road to Liberation", prepared by the PLO offices in San'a, North Yemen, has been observed recently Fridays only in the domestic service at 1900-2000 (BBCMS 3/18)

**AFROATLANTICA** Voice of the Free Sahara and Voice of the Free Canary Islands, from Algiers, have been extended to an hour each at 2100-2300 (BBCMS 3/25) VOFS on 3/22 in Arabic announced introduction of a program in French; this broadcast not yet confirmed (BBCMS 4/1)

**EUROPE** Is R. Nova International (ex R. Northsea Intl) on? Somebody hrd 4/11 around 6210 w/ all sorts of pop music, including Italian, from 0115 tune in past 0200; strength varied considerably, fair to very poor; nothing hrd at 0050 check 4/12 (G.M. Stanbury II, Crystal Beach Ont) A new broadcaster announcing as "Gama Radio", Milan was observed 4/11 1000-2215 and again at 2330 on 6208; also at 0430 4/12; programs almost entirely musical (BBCMS 4/15) **Voice of Cyprus**, pro-Turkish-Cypriot on 674 kHz, announced 2/19 revised sked effective 3/1; 0427-0700, 0900-1200 (including Greek rx 1030, English 1100), 1500-1700 (BBCMS 2/26)

**USA** "WGPR" had 100 w, longwire in South Brooklyn. Several of us know the identity & address of the operator who will, likely, be treated lightly by the FCC. It is very interesting to note they were reported, in writing, as a pirate to the FCC before Christmas, yet the FCC did NOT move to find them until local residents in the high-rise apartment where the xtr was located began complaining about QRM to their TVs and stereos to the FCC's public interference complaint number! Well, so much for the myth about the FCC's hard-line policy of cracking down on pirates. (Bob Foxworth, Mineola NY, NRC DX News 4/12) A poem postmarked Galesburg IL 3/30 includes: "When the week's all done and the sun gets low... just above five on your radio dial... around, oh, two or three or four... a brand new, unique SW sound from deep in the heart of the USA... John Aldon shot one by the shore... a round plump critter..." obliquely referring to "Wild Turkey Radio". I don't know if a hoax or what (Tom Overcamp, SC)

**Future Plans ANTIGUA** A short note from the BBC SEXB says the Antigua relay is expected to commence operation on a test basis in August. Present plans are to relay the LMA Service on 9 MHz and the WS on 6 MHz in the early and late evening and breakfast time. (James A. Conrad, Waterloo IA, 4/5)

**AUSTRALIA** Govt last year made a general offer of experimental radio licenses like VL2UV and VL5UV to universities that wanted. Newcastle is going ahead with it and I'll probably be on the organizing committee. Do my best to see it is SW not MW, and that there will be an enlightened QSL policy. (John Campbell, Newcastle NSW, Australia, NU 4/3)

**CZECHOSLOVAKIA** R. Prague is waiting until 1978 to resume language lesson broadcasts, when reception conditions should be more reliable (Wood & Nelson Monograph via Dave Walcutt)

**FINLAND** 250kw should test this summer, program in Sept. New antenna should improve reception in Europe more than elsewhere. Pori is boxed in; aim is to build new stn elsewhere (FBC)

(MORE FUTURE PLANS) GHANA A new Volta Regional Broadcasting House is to be built near Ho at an estimated cost of one million cedis. Land has been acquired, construction soon (BGCMS)

INDONESIA VOI future plans have a rather distant sound about them, but they would like pgms to Europe, preferably English, German, Spanish and French. But for time being they are choosing to concentrate on SEAs for program expansion. Yet, this will also have to wait as priority is being given to MW additions. Fears about imminent disappearance of RRI from SW are groundless. SW outlets to be retained as complementary backup service to MW, and will be phased out only as xtrs fall to bits (David Foster. DUDXS 3/76) Indo govt recently awarded Thomson-CSF contract for xtrs enabling Indonesian Radio & TV to broadcast its pgms to the thousands of islands in the eastern part of the country in Oct 76 (Telecommunications 2/76 via Al Reynolds, TN, via ASWIC 4/76) So Gates/Harris doesn't have all the market: (gh)

KENYA Mr. Mutinda, Min. of Info and BC says Kenya has no plans to establish an external service, but might consider such in future should need arise. Presently priority being given to improving existing internal broadcasting services (BGCMS 2/26)

NIGERIA Westinghouse subsidiary TCOM Corp. has received a \$150 million contract to provide balloon-borne broadcast system--10 tethered balloons--aerostats--supporting electronic transmitting and receiving equipment at altitudes of 10000 feet and higher for relaying TV, FM programming and telephone; a similar contract received from S. Korea (Broadcasting 3/29 via SWNS) Such a system recently operated in Bahamas. In Nigeria it might outpace SW (gh)

PAPUA NEW GUINEA R. Australia news 3/25 said NBC wants to become independent body, and begin commercial broadcasting later this year, since govt funds provided are not enough. (Bob Bodell, Portland OR) NBC plans to start comm'l BC in English, Pidgin and Motu 6/1 (Arthur Cushman, Invercargill NZ, via HCJB DX Party Line 4/19 via gh)

PHILIPPINES Paul Reynolds and I are building a 100 kw SW xtr, from old parts of other transmitters. (Francisco S. Matias, FEBC Tech. Dir, in a 3/13 letter to C. A. Taylor, IN)

(SOUTH AFRICA) (Of Apr LN-5) It's not clear whether Bophuthatama and Transkei will merit country status even if they acquire SW stations, as they are to be black nations "in South Africa" and "economically interdependent" (Don Jensen, NU with data from Sizer) Transkei will have its own broadcasting organization independent of SABC (Richard Ginbey, SCDX 4/27)

SPAIN The Spanish govt was studying a request by the US Board of International Broadcasting for a 3-5 year extension of the Radio Liberty Playa de Pals contract (BGCMS 4/1) The first round of talks ended by 4/5 without any agreement; Playa de Pals would continue to operate with another meeting set for May (BGCMS 4/15) Lease expired 3/23; a 2-month extension has been granted (Broadcasting, 4/12 via gh) It would not be so simple for RL to use present RFE or VOA xtrs...I can think of no other countries in the Western Mediterranean region that would host a RL xtr site (Kim Andrew Elliott, Minneapolis MN) I have reason to believe the contrary (gh) If RL loses its Spain base, R. Espana Independents might well close in exchange; QSL it now. (Elliott, inferring from a Michael Acco 3/18 Washington Post article)

Program News AUSTRALIA RA radically reorganized its programming 5/2. Judging from the timing of its DX programs (see that section), RA has adopted a 6-hour repetition cycle similar to AFRTS. I suspect that NAM listeners will be losers in this (gh) VLW9-9610 Perth is heard here all morning to 1600\* with excellent signals. Program is very enjoyable, consisting of good MoR, jazz classical, etc., plus ABC News sports and weather (hearing temperatures like 30°C given when it's 50°C outside is particularly nice!) Service is very comparable to CBE FM (Dave Ball, Downsview Ont) Agree; can someone supply an exact pgm schedule for this station, at least for 1000-1600 period? (gh)

CANADA Rerun avoiders can safely listen to "Royal Canadian Air Farce" through June, for all-new programs, as announced 3/28. Presumably now Sun. 1703-1730 on CBC NS (gh) Some programs worth listening to at least once are at 0330 (now 0230 gh) including "Jazz Radio Canada" and "The Great Canadian Gold Rush". The SWL really benefits from the superb CBC programs provided every day by the NS (Bruce Goldsen, Georgetown CT) In a 4/1 interview on "As It Happens" entitled "The War Nobody Knows About", Barbara Frum talked with the foreign minister of the Fretilin group in East Timor. He was in the US to gain support for the anti-Indonesian, pro-independence movement in East Timor. I guess those of us in radio are the only ones who know anything about the East Timor situation, at least in NAM (Bob Bodell) The 3/21 Washington Post contained a story reporting "The Soviet trade union newspaper Trud charged that R. Canada's broadcasts in Russian and Ukrainian are waging a "Cold War" against the Soviet Union in violation of European security conference accords. The commentary said the Canadian people came across in the broadcasts as a "bitter, quarulous and even aggressive foe." (Kim Andrew Elliott, Minneapolis MN) RCI had a Gallup poll done in April 1973

station	1973	1975
BEC	12.0%	13.3
D. Welle	3.9	6.4
R. Moscow	4.5	6.1
R. Nederland	3.5	4.4
R.C.I.	12.4	15.2
R. Habana	4.5	5.9

How do you know that RCI doesn't broadcast on 49 millimeters? Have you tuned up there lately? Since most Canadians and Americans don't know much about SWBC anyway, RCI could start an ad campaign using "while all the others transmit on 48 mm, only RCI broadcasts on 49mm. We're just a silly millimeter longer" (HI-dyhihi) (Adam Gaffin, Brooklyn NY)

CUBA Recent letters from Maria Montero Triana, Head of Correspondence for RHC, contain the following statement: We would like to tell you that the Voice of Vietnam has released its transmissions from Cuba. For many years, we provided daily airspace for this English language program as a small expression of our total solidarity and support with their struggle against imperialism. (Sam Barto, NNRC 4/76)

(MORE PROGRAM NEWS) ECUADOR HCJB appears to have dropped its Eskimo broadcasts to the South Pacific certain days at 0500 (and to the Arctic) per M period sked; a unique loss! (gh)

PAKISTAN 1976 is officially declared as Qaid-e-Azan year in Pakistan as 12/25/76 is his 100th birthday; he died 9/11/48. Radio Pakistan is broadcasting special programmes whole year (Beginner DXers Club "DX Gems" spring/76)

PHILIPPINES R. Veritas programs consist mainly of music and talk, with very little religious pretensions; what there is of the 'soft-sell' variety, not that Hellfire and brimstone stuff you get from some of the evangelists—probably in keeping with the Roman Catholic owners of the station. The initial 1400-1500 program on 4/11 included a short talk, "Our Asian Neighbors" spotlighting the Montagnards of Vietnam; SLC Tabernacle Choir selections—singing was wonderful!—news roundup at 1431 and a review of the week's news. All items but one were from Asia; also had some short inspirational poems. The announcers are Filipino—in fact, it seems I've heard some of them on Radyo Pilipinas before (Gib Junqua)

SOUTH AFRICA R. RSA's 3/20 English pga featured an interview of painters at the "Birds of the World" art exhibition in Johannesburg. The interviewer asked a female artist, "What is the special quality of the flamingo, having studied and painted it?" to which the painter replied in a sweet and innocent voice, "I think I'm particularly fond of white birds...any white bird seems to have a grace and an elegance that the other birds seem to have not." Is this a case of tactless editing by Radio RSA or is it intentional but subtle racial propaganda? Be careful of RSA, they are very slick! (William Ted Kotner, Cushecapol NE)

SPAIN RTVE difunde un espacio para América, "Raíces Verdes", que profundiza de manos de un equipo de expertos, en las raíces del folklore de la América de habla castellana, con variadas ilustraciones del mismo; sábados 2300, domingos 0100, 0300. "Teatro Hispano" nos pone en contacto con los autores más relevantes de la escena española y americana en las últimas décadas. El cuadro de actores de RTVE se encarga de ilustrar el estudio y análisis sobre cada autor con las escenas más representativas de nuestros comediantes y dramaturgos; domingos 0035, 0235, 0435—on 9360 11775 6120 9630 kds (RTVE hasta abril via Mac Leonhardt IN)

USSR In case you haven't noticed, R. Moscow's NAA service is now giving times in GMT. They had been using EST for years and years. It is very rare for RM to change any part of its program format. (Xia Andrew Elliott, Minneapolis MN)

VATICAN The pga-guide is sent to a regular mailing list, the receipt here has not been monthly. Times are in CET. It is multilingual, with interesting material in Slovak, Polish, etc., tips on reception, photographs and features. In format, paper, etc., it most closely resembles London Calling. It is free, but contributions to a bank giro account are requested. (Richard E. Wood, LINT)

DX Programs USA The IRCA-prepared "DXer Report" capsule on KDNW-720 Las Vegas NV has been rescheduled to Thursdays 0500 GMT (DX Monitor 4/24)

SOUTH AFRICA For J/976 there is an additional airing of R. RSA's DX Corner, Thurs until 1443 to G/BAF at 21535 15220 11900 (Sked via John Kleinerman, Cockeysville MD) Is repeat of Wednesday pga; at 1435 (Gerry Wood, via Don Johnson, CA via SPEDX GRAM 4/76)

SEYCHELLES FEBA's "DX Postbag" has been discontinued (SCDX 4/27 via gh) But hope to begin again soon (BDKERC DX Gems, PO Box 8563, Karachi 3, Pakistan; spring/76)

PORTUGAL R. Portugal's German DX pga has moved from Fri to Sun at 2130; on the first Sunday is produced by Studio Monica in Frankfurt, and on the 3rd Sunday by Arbeitsgemeinschaft DX; on 6025 and 9745 (Walter Ivens, Jr., Vienna, Austria, SCDX 3/16)

PHILIPPINES FEBC heard with "Manila Calling DXers" on 15440 at 2345 2/28 (Sat) (Joseph Lovertl, OH, SPEDX 4/76) Doubt if DX tips; International Listener calls it "SW Mailbag" (gh)

INDIA Timesig stn ATA on 10 and 15 MHz broadcasts a sunspot report at 0931 (Indian DX Club via Victor Coonstilleke's Asian DX Report, R. Nederland DX Juke Box 4/23 via gh)

HUNGARY This month's changes in R. Budapest's DX programs; none sked during regular pgas on Mon/Tue/Wed. "DX Show" Thursdays 0220 and Sundays 0324 1047 2147; on Thu/Fri/Sat "DX Mailbag" first week of May; "DX Academy" May 13-15; "Europe DX" May 20-22; (no DX last week of May) at these times: Thu 1042 1212 1442 2142; Fri 0212 1224; Sat 0312 R. Budapest sked)

GERMANY EAST RRI DX show seems to be Mondays now; noted 4/12 at 1900 (David Kernick, England)

FRANCE TWR DX Special via TWR-Monaco from 4/17 is broadcast Sat 0940-0955 on 9640 and repeated at 1500 on 7245. The first Sat's on the month the programme will be in German, edited by Gunther Langweige; other Sat's in English (Olaf Gress, Kassel, CFR, SCDX 4/6)

ECUADOR HCJB DX Party Line to Europe now resked from 1930 to 2000 Mon/Thurs/Sat (HCJB via gh)

CZECHOSLOVAKIA Since March R. Prague broadcasts German DX pgas every first and 3rd Tuesday at 2100-2130 and first and 3rd Wed 1900-1930 (Rolf-Peter Ewert, Berlin, GDR, SCDX 4/6)

BRAZIL RNB's DX pga is proposed; wants suggestions on content (ISWC via RN DXJB 4/23, gh)

BELGIUM RTB's French DX pga is on every Thursday 2130-2200 on 9730 11805 (spring freqs); Other BRT DX pgas are on 4th Sat of Month (and following Sunday) Spanish 2230-2300 and Flemish 2300-2330 to SAM 11805; Flemish 2345-2415, English 2415-2445 to NAA 9755 (sic); English to Africa 1730-1800 11940 9745 (spring frequencies; times should remain, anyway) (Telex)

AUSTRALIA We may not have the full RA J76 freq sked in time, but we have clues from new 6-hr rotational skeding of Club Forum and DXers Calling; contradicting info below was 4/28 amt that DX now to NAA Sun 0240. C.F. 4/24 gave this sked: Fri 2040; 9540 9580 11725 to NZ/Pac; 9730 to PNG/NPac. Sat 0240 11790 15190 15355 15415 to As; 11780 15160 to NZ/Pac; 15140 to PNG/NPac; 15320 17795 to NAA; Sat 0840 7290 9530 9560 to As; 5995 to midPac; 6005 to NZ/SPac; 9570 to SPac/Eu. Sat 1440 6035 9515 9770 to As. DX pga 4/25 said it would be on at same time 24h later (Sat/Sun) with contradictions: 0240 add 18780 As; omit NAA freqs; add 15240 to NZ/Pac. Neither falls in the former morning pga to NAA times; (gh)

**Broadcasts in English VIETNAM** Additional pgs from VOV 1600-1630 12035 10040 (BBC 4/15)

**VATICAN** RV on new 6095 at 0110 3/14, but subsequently moved to 6105 (Kernick, England) To Nam, ex-6165; RN-Bonaires papists vs. protestants on 6095 (gh) 3/11 in various langs on 6690 1955-2230; nothing on usual 6190 so probably transmitter fault (Kernick)

**USA** VOA ISB (independent sideband) transmissions sked; the other sideband often carries RTTY; Greenville 40 kW; Bethany 50 kW; see also LIBERIA, L-lower SB; U-upper SB.  
0300-0700 5745L 0300-0400 7651U 0400-0600 5745L 0300-0715 10869U 1600\*2000 16222L  
0300-0700 7651L 0600-0715 7651U 0300-0715 10454U 0300-0715 7768L (David Mackes, Baltimore MD, obtained on a visit to Bethany--almost the only way to get this rare info/gh) (cf Apr LN-8) the 4/1 test on 1622 kHz from KUB740, not KPX69, co-pending auxiliary of KBBV-1050 Big Bear Lake CA, was on the air, but poorly heard even in CA. At 1111 the freq was shifted to 1606 kHz, and a tone of 500 Hz was audible here at 1125 (Mike Worst, Seattle WA, IRGA DX Monitor 4/10)

**SYRIA** R. Demasac "Western/Turkish Pgs" to Eu in English 2030-2200 observed on 2545 ex-9655 (BBCMS 4/22) Must be my UNID on 2544.74 in MAR LR-C-3 (gh) /H-Hörby; K-Karlsborg;

**SWEDEN** Many J76 (May-August) freq changes, and an additional xmsn to NAM at 0030 from SR: 11 9630 K260 12 21690 H180 16 6065 K260 14 17730 H180 20 9605 H145 02 11955 H310 21690 H180 14 15240 K090 9770 H100 15240 H165 23 6120 H295 04 9695 H310 12 15275 K060 17770 H100 15240 H115 20 6065 K260 9695 H310 11705 K310 15305 H295 15305 H310 18 6065 K260 11790 H180 11705 K310 az-lauths 4/10

**SWAZILAND** TWR effective April (cf Mar LN-15 and Apr LN-8 for earlier versions) Sun 0545-0700, Mon 0515-0700, Tue/Wed 0530-0700, Thu-Sat 0600-0700 on 4790 9590. Daily 0715-0900 on 6070 11760. Mon-Sat 1800-2105 3275 5950. Sun 1900-2105 on same. For Indians daily 1845-1915 on 3240; for Africans Sun 1815-1845 on 3240, Wed 1800-1830 & Sat 1730-1800 on 6070 (Richard E. Wood, Garden City NY) What do they hope to gain by such complexity? (gh) Swazi-land Commercial has a new service for the Indian community in SAF, SBA Music Radio! commercial, mostly English but also Hindi/Urdu/Tamil/Gujerathi. English at other times lba as "Swazi Radio". The 0500-0700 period on 3223 and 4980; daytime tests 7105, none regular. (Richard Ginbey, Vanderbiltpark, Transvaal, via SCDX 4/6) See also DIB... (gh)

**SRILANKA** Colombo ES changes 0030-0430 to SEAs/FE 9720 ex-11725; 6075 only to 0230. 1900-2000 to Eu 7190 ex-15120 (BBCMS 3/25) 1900-2000 also on 9720 11800 (W. Ivens, SCDX 3/30)

**SPAIN** Acmag changes promulgated in RNE's current sked is English to Eu 2130-2230 on the 31 and 4mhz bands. Possibly introduced 4/12 (BBCMS 4/8)

**SOUTH AFRICA** Radio RSA has begun broadcasting to NAM on 60m. Complete J76 sked: 0256-0426 EAF 3230 3995 4875 1300-1450 Q/EAF Mon-Fri 11900 2226-2320 NAM 11900 9585 4875 0611-0705 WAF 15220 11900 1300-1450 Q/EAF Mon-Fri 21535 0956-1045 Ant 15125 Sunday only 1056-1158 Q/EAF 21535 11900 15220 1556-1650 EAF/AE 21535 11900 4875 (John Kleinsman, MD: via) 1300-1550 Q/EAF Sat/Sun 21535 11900 2056-2150 WAF/Eu 11900 \*9585 4875 \*subject to alteration

**SOLOMON ISLANDS** Honiara seems extended sked daily on 2545, ex 0330\* to 0515\* 2/18 (Bob Padula, ADXN 3/76)

**SAUDI ARABIA** Jiddah to Europe on 11855 1100-1250 and 1900-? (BBCMS 4/8)

**PHILIPPINES** R Veritas finally began regular service to S/SEAs 4/11 at 0100-0200 on 11725 & 15270 and 1400-1500 on 11725 & 15260; 25m better than 19 here (Gib Junqua, Osaka, Japan) Cf Program News; contradictory freqs; (gh) 0100-0200 on 11910 & 15270; 1400-1500 on 11800 & 15260; also 0000-0100 and 1300-1400 in Thai & English (R. Australia DX 3/28 via gh) 11910 and 15260 are 50 kw; 11800 100 kw (Raymond Argyrosway, Madras, India, via SCDX 4/6)

**PAPUA NEW GUINEA** NBC-Port Moresby operated on 2575 for about a week 2/28-3/7 in the 2200-0700 period, but then returned to 9520; 9575 was a R. Central xmt (Bob Padula, Paul Jackson, Robert Yeo, Dennis Allen, Robert Hammer, via ADXN 3/76)

**PAKISTAN** RP on new 5045-5050 drifting 4/6 in Urdu & English 0025-0042\*; Eng to Eu 2100-2145\* on new 7775 // 9465 (David Kernick, England) Several changes in times & freqs; only partially in English. Bangladesh svc, 1115-1315 ex 1145-1415 on 17750 15325; Turki Svc 1215-1315, ex 1530-1630, on 9690 7265; Afghan/Persian svc 1400-1700, ex 1615-1900 on 4020 3240; NE svc 1715-1845, ex 1830-2000, on 9690 7290, as is WAF svc 1900-2000, ex 2015-2115 (BBCMS 3/18)

**NEW ZEALAND** M76 RNZ ES sked Calling Antarctica on Sundays at 0100-0145 on 11705 (NZDX Times 2/76) Noted on new 11245 to 0545\* (Paul ---, Edmonton Alta, BEC WRC 4/28) list 11845

**NETHERLANDS ANTILLES** No changes for J76 in RN's English relays from here, nor from NETHERLANDS nor from MALACASY REPUBLIC (gh)

**MONGOLIA** UBR now has English 1220-1250 on 5960 and 6380 (NHK DX News 4/11 via Bodeil, OR)

**LIBERIA** VOA ISB operates from here with 50kw on 15875 LSB 1600-1800 (David C. Mackes, MD)

**KOREA SOUTH** Seoul at 0900 on 11850 11660 9640 (August Balbi, CA, HCBJ DXFL 4/8) DYP? (gh)

**JORDAN** R. Amman English on 9560 1500-1730 not discontinued, the sometimes Arabic (Kernick)

**JAPAN** FEN is still on 11750 despite BBC hrd between fades 0600-0730; also 6155 15260 (William)

NHK J76 sked; 0130-0230 N/C/SAM/Haw 17825 0930-1030 Au/NZ 9670 11875

2015-2045 ME/WAF 9700 11705 17725 15420 or 15235 15195 1115-1145 SEAs 9675 11875

2345-2445 Nam 15270 15300 0800-0830 Eu 15325 15430 1630-1700 SEAs/Af 9670 11705

General Service to Am 15 min on the hour ex. 30 min at / 1830-1900 Eu 9605 11960

1000, 1400, 2300 on 15105 1900-0415; 9505 0500-0915; 5990 1000-1315. To As 17880 1000-0715;

15195 0800-1115; 11815 1200-2115; 15195 2200-0015. To Eu 15310 1000-0915; 9585 1000-0015.

(via David Walcutt, Chicago IL)

**ISRAEL** No DST this year, so 0500 and 1200 programs remain at same times (Michael Fine, IL)

0500-0515 WEU/ENAm 12045 9435 7412, WRAM 9815, SEAs/Au 12045, 1200-1230 WEU 17685 15488

15100 11655, SEAs/Au 15465, 2000-2030 WEU 11645 9815, Af 9435 9009, 2230-2300 ENAm 12045

SENA 9435, NAM 11625 9820 (IRA 4/25 via gh; major transmitters only; WEU also audible NAM)

**INDONESIA** VOI from Jakarta-Tjilanggis, 100 kW on 11790; and 9710 announced as 9745  
0900-0930 Mal/Sing/SEAs/Pac 11790 9710 1400-1500 repeat 1100, to where? once NAm 11790 9710  
1100-1200 Au/Nz/Pac 11790 (11782 -gh) 2330-2400 Mal/Sing/SEAs/Pac 11790 9710 (BECMS 3/76)

**INDIA** AIR GOS 3/76 changes, maybe more now. 2245-0015 on new 9590 9525 11850, ex 9520 9575  
15280; 6085 extended to 0015. 1745-1945 9720 ex-9575. 1000-1100 15165 ex-9575. Rest same as  
WRTVH 76 (NHK DX News 4/11, via Bob Bodell, Portland OR)

**GUENADA** R. Grenada once again using 90a, circa 3300 kHz. Half hour news Sat 3/27 2330-2400  
but no clear ID; next day, ID 2350, political speech (Bruce Boomer, Nutter Fort WV) We had  
daily need another stn around 3300! Everybody but me is hearing them on 15105... (gh)

**GREECE** VOG on new 11925 at 1815; IS very exotic sounding (Bob Bodell, Portland OR)

**FRANCE** RFI's "Paris Calling Africa" an hour earlier since 3/28, 1600-1700 (David Kernick,  
England & Kim Andrew Elliott, Minneapolis MN) Noted 4/15 opening at \*1604 announcing 13-16-  
19a to E/GAF; 18-19a WAF; 19-25a NAF. Audible on 17860 17850 17720 15300 15200 15155 (gh)  
Heard on 21620 21580 17865 17720 15315 15155 (BECMS 4/22) Resked clearly for the convenience  
of Parisians on DBT, not Africans where this blight is largely unknown (gh)

**FINLAND** Anticipating test xmas (see Future Plans) from R Finland's new 250kw xatr is  
this J76 sked, including the usual retiming of the 0300 pgm for NAm to 2300.  
0730-0800 Wbu 2300 6120 100kw 1400-1430 NAm 305 15185\* 250 2030-2100 Wbu 205 11755 15  
1400-1430 Nbu NId 6120 15 1830-1900 Wbu 234 9550 100 SAm 234 15185\* 250  
Wbu 234 9550 100 Su/WAF 200 11755 250 2300-2330 NAm 305 15185\* 250  
Eu 205 11755 15 2030-2100 Wbu 230 6120 100 \*or 15110

(FBC via gh; apparently means NAm broadcasts will be sporadic; never should have left 15185)

**ETHIOPIA** R. Ethiopia daily 1000-1030 and 1500-1530 on 9610 6185 (BECMS 2/76; non Eng LN-1)

**ENGLAND** The complete BECWS from England J76 sked in a different form than usual--showing  
all the nodes when target areas change and reception may come or go at your location.  
21710 07-09-0915-1030-1615-1745. 21610 09-1330. 21470 09-1030-1330. 17790 06-0730, 09-1330.  
17705 09-1615-1745. 17695 15-1530. 15260 20-2115-2245-2330. 15070 05-07-0730-09-0915-11-  
13-1330-1615-1830-2030-2115-2245. 12095 06-0730, 09-13-1615-1830-2115. 11955 0545-0915.  
11780 2115-2330. 11750 04-05-0630-0730, 17-1745-20-2030-2115-2245-0230. 9915 2245-0330.  
9760 09-1515. 9750 09-1615. 9640 0545-0915. 9580 2115-2430, 0430-05-0630-0730. 9410 03-04-  
0430-0630-0730, 09-13-1430-15-16-1615-17-20-2115-2245-23-2315-0030-0330. 7325 22-2245-0030-  
0330. 7240 07-0730. 7210 03-04-0430, 0630-07. 7185 03-04-0530-0545-0630-0730. 1830-19-2330.  
7150 0545-0915. 7130 2245-0030-0330. 7120 0545-0730, 17-1745-18-20-2115-2245-2315. 6195 06-  
0630, 07-0730, 17-1745, 20-2030. 6050 03-04-0530-0630-0730. 5975 03-0430-05-0545-0630-0730-  
except 1130-1300 Jun-17-18-20-2030-2115-22-2315-0030-0330. 3952 03-0330, 0545-0730, 16-  
1615, 17-1745, 18-1830, 20-2030, 22-2315. (BBC sked compiled by gh; see Cyprus, Canada, Asc)

**ECUADOR** HJJB J76 begins evening to SAm, opens evening to NAm earlier. 1900-2030 Eu 17755 15300  
0040-0300 NAm 11915 9500 1215-1630 NAm 11745 0700-0830 Eu 11875 9760 0500-0700 SPac 11915  
0300-0500 add 6095 0040-0230 SAm 11885 0830-1030 11875 0700-1045 9745 0130  
0500-0700 9560 6095 1230-1630 15160 1730-1800 17755 15310 (DXPL 4/26 via gh)

**CYPRUS** BBC EMR J76 includes S Asian alternative to WS at 0145-0230. 21660 09-1245 (Sun 1130).  
17885 06-0730, 09-1615. 15420 04-05-0730, 09-1130 Sun-1245-1745. 14400 1745-2030. 11955  
0145-03-0430. 11925 17-1745. 11820 18-1830-2030. 11760 06-1330 (0815-09 Sun only). 9750 06-  
0730. 7275 00-0230. 7250 0230-0330. 7140 00-0030. 6195 0030-0315. 6180 04-0630-0730, 17-18-  
20-2115-2315. 6140 00-0030. 3989 1745-1815, 20-2115. Beware; other times, other sites (gh)

**CUBA** RHC uses new 11865 ex-11815 to Eu 2010-2140 (David Kernick, England) for M76 anyway (gh)

**COLOMBIA** R. Nacional on 9685 3/26 0105-0111 English lessons // 4955 (Mark Bixby, Newport  
Beach CA) 3/20 on 9680 at 0130 with English less; other days RHC noted (Kernick) Cf LN-1 (gh)  
Also has BEC's "Inglés por Radio" M/W/F 1202-1217 (Adam Gaffin, Brooklyn NY) These are part  
of the instructional "Bachillerato Radial" pgm, cf Apr LN-9 (gh) Eaisora Meridiano Setenta  
closes 0106 on 4926 with an English ID, 3/23 (Pitt McNeil, Wash. DC., via TDKN)

**CANADA** Initial J76 sked from RCI: 0100 11940 9650 6085; 0400-0600 11765 9655 (pgm format  
to have changed; perhaps merged into one 2hr pgm?); 0620-0800 20min French alts 11915 9680  
6145; SPac retimed to 1000-1100 5970 9625, latter conflicting with presumed summer \*1028 for  
NS on same freq; 1115-1215 15175 11825 to Crb, 9655 5970 USA. 1800-1857 & 2057-2155 both on  
17820 15325 11855. Weekdays 2157-2400 on new 6040 relay HS. (gh comments, RCI info 4/24)  
Was planning to move 15325 to 15435 for summer due anticipated conflict (Larry Magne, PA)  
Instead of shifting with NAm DST, BEC relays via Sackville merely expanded ahead of time;  
J76 sked 1100-1330 on 5990; 1600-1709 (Sat/Sun 1500-) on 9580 15365; 2300-2430 on 9510; 2300-  
0430 on 6175. Will these be dropped when Antigua is on? (gh) Which of the private Canadian  
SW relays are still on the air? Was I wasting time on 6030 this winter? (Tom Overcup, BC)

**BHUTAN** NYAB's Sunday pgm runs 0900-1000 on 7040 (Adrian Peterson, Singapore, RA DX 4/18, gh)

**BELGIUM** ORU noted at 0015-0045\* on 9725, not 9730 or 9755 (David Kernick, England)

**BANGLADESH** ES sked 0445-0515 on 15400 21685; 1230-1300 11890; 1815-1915 6015 7250 (NHK DX  
News 3/21 via Bodell; may be out of date now -gh)

**AUSTRALIA** R. Australia announced 4/28 that the morning xmas would expand to NAm to 1100-1300  
with no changes in freqs or evs; Despite this. Club Forum and DX disappear from morn sked,  
as World News goes on at 01, 02, 11, 12; Au Nx on following ½ hours; current affairs at 10  
past hours, and NA Mailbag Sun 0140 (too late to get in Program News section) (gh)

**ASCENSION** BEC AR major J76 changes; 15260 dropped. 9580 now from here 2000-2115 to SAm/WAF;  
0030-0330 to NAm; 0300-0430 to EAF (BEC freq sked via gh)

**ALBANIA** R Tirana on 11865 at 1105 3/6 (Ken Earhart, PA, via ASMLC) ex-11905 then, NAm (gh)

**SEYCHELLES** FEBA hrd 0730-0800 to SEAs on 15160 (Toru Nakanishi, JADX, via RA DX 4/11 via gh)

DON'T YOU BELIEVE... ...the favorable review in FRENDX of the Becker SW automobile tuner. I bought one with the fancy amplified antenna and was installed by the NIM HQ. It is a piece of useless hardware. Woefully insensitive. Local AM stns overpower SW stns; get TV ch. 6 audio in middle of SW bands; car QRN comes thru loud and clear. Would cost nearly \$200 to fix with filters, longer antenna, etc. (Larry Magne, Rockledge PA)  
 ...that 11 meters is one of the best bands now from Europe to NAM and elsewhere, as on Maarten van Delft's first propagation summary on R. Nederland DX Juke Box 4/1 (gh)  
 ...that you'll hear African broadcasters on the 23 meter band, as on DX Party Line 4/3 (gh)  
 ...gh's 7150 comments in Apr LR-C-2. It's not beamed to NAA but to Aus, NZ, Pac Is, so use of 11mb is OK. Did you slip that in to cause comment or what? (Arthur Watson, Burnaby BC)  
 No, the LR editor slipped in "North America" instead of "Australasia" as my report read. It isn't OK, as the signal has to traverse the Americas from Britain to reach the Pacific (gh)  
 ...that ABC stayed with "Meet the Author" replacing "Meet the Newsmaker"! they used a suggested title one week, and returned to the old, hype one the next (gh)  
 ...that I'm a trekkie, in keeping with the new DX Juke Box theme music! (gh)

IN MY OPINION Hadley Cross, Harrisonburg VA; (Cf Apr FRENDX-19) With all due respect to McIntire, I doubt that the Russian Communist bureaucracy is sufficiently concerned over McIntire's criticisms as to jam his broadcasts on any frequency. I recently resided about 20 miles west of Belle Glade and near West Palm Beach. That 20 miles was the near limit of WSWN's service area at 1 kw daytime. Aside from the town of Belle Glade and its approximate 16000 population, that station's service area consists principally of the northern edge of the Everglades and Lake Okechobee. These areas are rather sparsely populated. My awareness of that virus which we call Communism and of the basic stupidity inherent to Communist bureaucracies, probably is more intense and certainly predates McIntire's concern with the subject. However, I find it impossible to believe that bureaucracy is so stupid as to expend any effort to jam his broadcasts on WSWN. Aside from the basic illogic of McIntire's thesis, I doubt that any Russian submarine or other vessel is standing off the Florida coast with a transmitter capable of 25 to 27 kw on 900 kHz. The comment that 'the Russians have successfully eliminated from the air waves any effective criticisms' was obviously made without regard for Radio Peking and Tirana. gh: being ignored is worse than being jammed...

ASWIC Americas Editor John Fischer, Jr., Hartford CT: "I find NASWA's logging section most dull, since their editors never seem to be knowledgeable of the endless possibilities of countries which could turn up in their given logging section." (ASWIC 4/76, part of an argument in favor of retaining their geographical log report divisions) gh: ASWIC editors certainly make their share of mistakes, which I usually ignore for DYB purposes....

C.M. Stanbury, II, Crystal Beach Ont, SWNS: "These are the links between R. Swan/R. Americas and Lee Harvey Oswald. (1) In New Orleans, Oswald acted as a one man (pro-Castro) Fair Play for Cuba Committee. However the address from which Oswald's FPFCC operated actually belonged to the Cuban Revolutionary Council which produced programs for R. Swan and R. Americas. (2) Found in Oswald's room was what was described to the Warren Commission as a 'barrelful' of Committee to Free Cuba leaflets. The CFC's program 'Radio Cuba Libre' was also carried on R. Swan and R. Americas. (3) All of this is just the tip of the iceberg because R. Swan and R. Americas were part of an interconnected matrix of clandestine and clandestine-involved stations, partly tied together through R. Swan's planned alternate Bay of Pigs sites, that included R. Caribe (which has now evolved into, primarily, Radio-TV Dominicana, and, by a more circuitous route, R. Clarin) and R. Libertad. Oswald can not only be linked with R. Americas but also with R. Caribe and R. Libertad."

All U.S. NASWA members will be receiving a questionnaire within a few days after receiving this issue of FRENDX. This survey is NASWA's improved version of a poll of NNEC members conducted a few years ago. Please complete and return the questionnaire. This survey can have considerable impact on SWBC stations, equipment manufacturers, publishers, distributors, etc., but it can be effective only if there is a large response. The questionnaire will ask about your listening preferences, reception conditions, radio hobby activities, etc. A few minutes of your time will be of great assistance to NASWA and the hobby.

PUBLICATIONS Down Under DX Survey No. 4/1976, dated 3/21 is now available from 17 Stevenson St., Kew, Victoria, Australia 3101, for 4 IRCs airmail (2 IRCs or 30¢ in airtel AU stamps in AU/NZ). As promised, it contains a fascinating account of Willis & Foster's 8-week trek thru Indonesia--DX aspects, anyway, more than 7 pages of info, including surveys of MW activity in various cities; and accounts of visits to several interesting stations. Rounding out the 14-page mimeoed bulletin is an Asian survey for 7100-7300 kHz, 3 pages, and 3 pages of general Asian DX news. Highly recommended for DXers of Asia.

A Guide to Soviet Broadcasting, by Robert Butterfield and Doug Snyder, just published by SPRENDX, Box E, Elsinore CA 92530 for \$1.25 compiles data from a number of sources, including WRTVH76, into one 40-page FRENDX-sized booklet. It does not deal with the many language services of R. Moscow, but does have complete skeds of regional stations' external services. Also BEGMS HS freq skeds as already published here; several introductory articles on how Soviet broadcasting is organized; the Russian language--with a report form via Ed Shaw, in which the letters M and U are not always distinguishable; 18 pages of sites by frequency; a page showing mtr sites alphabetically and with coordinates; a 2-page outline map of them, but perhaps the most useful and original section is a sunrise/sunset table for them all(gh)

World Radio Bulletin, not long ago taken over from WRTVH Co. by David McGarvey, Scotland, has ceased publication, due to rising costs (letter from publisher to ASWIC 4/76)

Language Lessons on the Radio is a new section planned for WRTVH77. Data is requested, especially for 'minor' languages other than Afrikaans, English, Japanese, Polish, Russian. Please provide any information you have to the compiler, Dr. Bruch, Altenhainer Weg 1, D 6232 Bad Soden, W-Germany. (WRTVH Ed. J.M. Frost, via NASWA HQ)

**TIME STUFF** Cuba DST began 4/4 thru 9/25, so GMT -4 (EDT). Cyprus GMT +3 to begin 5/15 in Greek sector. Chile reverted on 3/13 from GMT -3 to GMT -4. France GMT +2 began 3/28. Greece GMT +3 began at midnight 4/10, to 0100 local 10/10/76. Morocco at midnight 5/1 advanced to GMT +1. Paraguay reverted to GMT -4 on 4/1. Spain began GMT +2 early on 3/28 (like France) instead of the planned 4/10; remains until 9/25/76. (various BBCMS reports)

**ASK THE EDITOR** Why did you quit giving the solar-terrestrial conditions? It was useful in checking over the logbook. (Pitt McNeil) 1. It got to be too much hassle to get the info every day; 2. Jerry Lineback is keeping up with it; 3. info is available by mail from NOAA, SESC, SEL, ERL, Boulder CO 80302 (gh) What's the story on KPRM? I found an article in Aug. 1960 Popular Electronics saying it would go on the air in October on 15180 from Dallas. (Paul R. Jordan, Houston TX) It never went on the air; ran out of money, I think. At one time it also planned to operate from Glenpool OK; it's a shame that only WINB has tried the private SW route since (gh) Why do you give times like 2445? Surely logic would dictate that 2400 is the maximum. (Richard E. Wood) I find 2445 more esthetic when following e.g. 2345. As a matter of fact, we could eliminate the day/date GMT/US time confusion by designating e.g. Tue GMT 0300 as Mon 2700... (gh) How did this UKOGBANI business come about? (Charles Taylor, Indianapolis IN) United Kingdom is the official name of the country, "of Great Britain & Northern Ireland", so why stop at UK? We must enjoy UKOGBANI while we can as the acronym will become unpronounceable once Ulster departs. (gh)

**POSTALIA/CLUB NEWS** Down under clubs are changing overseas airmail rates. Australian PDXC is now offering a special reduced size edition of their ADXN magazine, limited to 20 pages, for a reduced rate of only \$4.14 plus \$2 joining fee, at Don Jensen's urging, covering SW info only; that's about US\$17.64 (not incl. joiner), instead of about US\$30 for the entire bulletin for a year (ADXN 3/76 and NU 3/27) NZ DX Times to N/SAm Eu As Af NZ\$10 now by air, presumed yearly; \$6.50 by surface; Box 1313, Invercargill (NZDXT 3/76)

**LATE ITEMS**, lead section; ALGERIA R. Algiers Arabic service noted on numerous unlisted fqs such as 7150 9590 9750 11795 11815 11925 11935 15330 15520 17780 21555 (David Kernick). 22)

**BYELORUSSIA** R. Minsk 2nd pgn HS "Krynitea" at 0700-1100 is heard on HF 9670 9560 (BBCMS 4/JORDAN HS is on new 15105 0900-1500 (BEC WRC 4/28 via gh)

**PORTUGAL** Rdf. Portuguese HS feeder heard on 11425 approx. 1750 to 2000 fade (BBCMS 4/22)

**SEYCHELLES** FEBA is testing at 0405-0500 to Eaf and 0945-1100 to SAF Apr 12 to May 23 on 11810 and 15270, subject to change (Jim Miller, Discovery, Transvaal & 2 other SODX 4/27)

**Clandestine Cranny** KOREA NORTH R. Pyongyang is now carrying the clandestine "Voice of the Revolutionary Party for Reunification" Sundays 1030-1100 to South Korea on 6400 3320 (BBCMS 3/22)

**Program News** PORTUGAL Rdf. Portuguese announced that from 4/19 it would restructure its international BCs to increasingly reflect "the principles of topicality, diversity and objectivity", including the setting-up of an independent news service with an autonomous newroom. The service would be introduced in stages (BBCMS 4/22)

**TUNISIA** TRT has introduced a new pgn "Voice of the Masses" in the main Arabic HS. Daily, approx. 2400 for 15 minutes. It is a listener-participation program of a 'mailbag' type consisting of letters supporting Bourguiba's policy and attacking the Libyan regime of Qadhafi. Heard on 7275, and followed by Qu'ran recitation, extending closing from 2330 to 2430 (BBG)

**Future Plans** FRANCE France-Inter says a meeting of the Council of Ministers 4/14 examined a report on France's external BC services envisaging increasing BCs to NAM, Antilles, Ecu. (BEC MS 4/22)

**SWITZERLAND** Swiss PTT is working on an ambitious plan to modernize the Schwarzenburg station by replacing 3 x 100 kw xtrs with 3 x 250 kw, supplementing other 2 x 250 already in service at Lenk and Sarnen for several years. In addition, a new multi-band multi-directional aerial system is to be installed which will increase radiated power. Schwarzenburg project will not be completed until 1982 but the first of the new 250 kw xtrs will enter service during the Autumn of this year (SBC sked brochure via BEC MS 4/22)

**YUGOSLAVIA** Tanjug reports that the Socialist Alliance of the Working People of Yugoslavia Federal Conference for Informative Political Activity with Foreign Countries Co-ordinating Committee (SAWPPGIPAFGGC -gh) has discussed the formation of R. Yugoslavia and whether it should replace the present external services of R. Belgrade. It was decided that RY should broadcast to those areas not covered by the republican or provincial radios as well as to the non-aligned countries which Tanjug's foreign services 'cannot reach'. (BEC MS 4/22)

**BBCMS MW INFORMATION** (space available) YUGOSLAVIA On 3/24 the first of two 1000 kw xtrs for Program I had been commissioned after 6 months building. Both are from Continental Electronics, Dallas, and will be combined for 2000 kw to an aerial system allowing "3000 kw average power". Continental claims will be most powerful BC xtr in the world.

**VENEZUELA** "Ondas Portorñas" has raised power in Puerto La Cruz to 50 kw for nat'l coverage. USSR On 10/16 Murzansk announced that the Mayak program would be broadcast on 611 kHz.

**UAE** Since 3/30 Abu Dhabi HS on new 728 1500-1950\*. Also, Dubai has ordered 750kw xtr.

**THAILAND** Besides VOA relays 1330-1700, the 1000 kw 1580 xtr carries Thai pgs 0450-0600 and 0950-1330; no longer on at 2200-2230. The Thai Government was reported planning to make more use of this most powerful stn in the country for counter-propaganda.

**SYRIA** Dar Az-Zawr Arabic HS moved from 953 to 827 kHz. PARAGUAY R. Priero de Marzo is a new stn on 740, 25 kw, sked 0800-0500, experimentally, circa 4/1 from Mariano Roque Alondo.

**PAKISTAN** has been provided ten 'village transmitters' by Australia; four to be in this year.

**NIGERIA** MinCom has authorized Univ of Nigeria, Nsukka to operate a 'mini radio station' 6h per day on MW, 20km radius, designed and built by staff and students.

73 de Glenn!

# QSL

# Report



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We have 116 countries reported this month! That's a record that will be difficult to beat, but I know you'll try. Unfortunately, this great influx of material means that I may have to exclude some of the items for the more "popular" countries because of space limitations. In any case, if this does become necessary, I guarantee that every one who sends in material will be represented by as many items as possible.

Three countries making their debut in QSL Report are Upper Volta, South Korea and Tadzhik SSR. We also have a perfumed letter from the Philippines.

**AFARS & ISSAS:** France Regions 3, 4780, card w/date in 48 days for 2 IRC's and portrait of the City of Wheeling. (Wiles-WV).

**ALBANIA:** R. Tirana, 11865, card in 3 months. (Barto-CT): 7065/9790, f/d card in 3 months. (Gercken-IL): 6200, card in 97 days for 1 IRC. (McCarthy-IN): 7065, f/d card in 90 days for 1 IRC and EE rpt. (Smith-NY).

**ARGENTINA:** RAE, 9690, blue/white cards w/only freq received in: 44 days for EE rpt w/tape. (Detlefsen-IL); 6 months. No rp. (Pine-IL, Gercken-IL); 6½ months for 2 IRC's, used stamps. (Moritz-GH); 3 months. No rp. (Raper-GA); 101 days. No rp. (Schipelliti-MA); 77 days for 1 IRC. (Ashenhurst-ONT); 84 days on 2nd try for SS rpt on EE xmsn. (Conover-PA); 62 days for 2 IRC's. (Ward-BC); 5½ months. No rp. (Schulman-NY): 11710, 2 cards in 7½ months after f/up. (Scott-ONT); 182 days, wrong freq. (Cohen-NJ): 11710/9690, 192 days for 2 IRC's. (Poppin-CA).

R. El Mundo, 6120, QSL card and sticker in 3 months for SS rpt and mint stamps. (Guarducci-BC).

**ASCENSION IS:** BBC Relay, 9600, card in 2 months. No rp. (Vockeroth-PA): 9580, 5 weeks. No rp. (Clare-CA); card w/"Atlantic Relay" and skeds in 21 days. No rp. (Rojewski-WA): 6005, card and sked in 28 days for 1 IRC. (Ashenhurst-ONT): 9765, 3 weeks for card w/site. No rp. (Raper-GA).

VOA Relay, 15195, card w/site in 3 days. (McNeil-DC).

**ASIATIC RSFSR:** R. Moscow via Khabarovsk, 7150, f/d card in 41 days. No rp. (Noonan-WI); card in 1 month for RM rpt form. No rp. (Ball-ONT). Via Krasnoyarsk, 11860, card in 30 days for 1600 GMT African prgm, although card quoted "Asian Svc"! (Cosier-AUST). Via Petropavlovsk-Kamchatsky, 17700, card in 1½ months. (Barto-CT). Via Komsomolsk-on-Amur, 17900, card in 1½ months. (Barto-CT).

**AUSTRALIA:** R. Australia, 9580, f/d card and rpt card in 3½ months. (Gercken-IL); f/d card in 4 months. No rp. (Cohen-NJ); f/d card in 24 days. No rp. (Schipelliti-MA); f/d card in 224 days. No rp. They must be way behind in their mail as the postmark was Dec. 15 for an Aug. 2 rpt. (Conover-PA); f/d card, rpt card, prgm guide, sked and calendar in 117 days for 1 IRC. (Brindle-PA): 11725, f/d card in 99 days. No rp. (Poppin-GA): 15320/17795/9580, f/d cards in 71 days. No rp. (Poppin-CA): 11935-Garnarvon (test, 250 kw), card in 5 days by hand per fellow DXer Robert Hanner who was working at the station on vacation employment in January: 9540-Garnarvon, card in 8 weeks: 15405-Shepparton/9530-Grevillea, cards in 8 weeks. (Padula-AUST).

VLW6-Perth, 6140, f/d card in 17 days. No rp. (Mayer-IL).

VLW9-Perth, 9610, f/d card in 3 months. No rp. (Vockeroth-PA); f/d card in 9 weeks. No rp. Arrived in spite of having no stamps affixed. (Brown-MI).

VLW15-Perth, 15425, card in 4 months for 2 IRC's. (Barker-TX).

VLQ9-Brisbane, 9660, card in 4 months for 2 IRC's. (Barker-TX).

VNG (Australian Post Office), 7500, folder QSL in 3 weeks for 2 IRC's. (Capobianco-NY); colorful f/d folder in 11 months. (Barker-TX); form letter w/all data filled in, station pamphlet and R. Australia sked in 42 days for 2 IRC's which were returned. V/s Mrs. Pam Schleiger. (Gaffin-NY): 4500/12000, f/d xatr site card in 3 months. No rp. (Blastni-ALB).

**AUSTRIA:** ORF, 17765, "Lakeland" card and sked in 8 weeks. (Padula-AUST).

**AZERBAIJAN SSR:** R. Baku, 4785, f/d cheap carbon copy of paper "QSL card" and beautiful postcard in 3 months, certified and registered airmail, for

for EE rpt. No rp. (McNeil-DC).

**AZORES:** Emissor Regional dos Acores, 4865, f/d "Hot Springs Pool" card in 1 month for 2 IRC's, used stamps and EE rpt. Down goes my ORP! (Moritz-OH).

**BELGIUM:** CRU, 9755, card and pennant in 40 days for 2 IRC's. Strangely, on the card's coverage area, Albany, capital of New York, is shown instead of Washington, DC. (Capobianco-NY): 6080, map cartoon card w/date and freq, FF sked, pennant and stickers in 61 days for EE rpt. No rp. (Sheehan-ONT).

**BELIZE:** R. Belise, 3300, map card and small card of country's new flag as requested in 1 month, registered mail, for 2 IRC's and best wishes for this "new found nation". (Capobianco-NY); map card in 13 days for EE rpt and 1 IRC. "5 kw" was scratched out and replaced by "1 kw". (McCarthy-IN).

**BRAZIL:** R. Nacional de Brasilia, 11780, f/d orange map card and sked in 43 days for EE rpt and 2 IRC's. (Ward-NB); f/d map card in 4 weeks for EE rpt. No rp. Also got sticker in lieu of pennant. (Raper-GA); f/d color photo card and sked in 22 days. No rp. (Richardson-NY).

R. Aparecida, 5035, card in 1 month. V/s Jose Carlos. (Barto-CT).

R. Brasil Central, 4985, EE stencilled letter in 4 weeks for PP f/up. No rp. V/s Gerente Geral. (Cosier-AUST).

**BULGARIA:** R. Sofia, 9700, f/d card #2 in 4 months. No rp. (Delap-AR); f/d card w/freq in meters in 85 days. No rp. (Cohen-NJ); f/d card, sked in 95 days. No rp. (Conover-PA); f/d card in 18 weeks. No rp. (Schulman-NY).

**BURUNDI:** R. Cordac, 4900, f/d card in 52 days for EE rpt and 1 IRC. (Smith-NY); f/d card in 2 months for EE rpt, mint stamps and postcard. (McNeil-DC).

**BYELORUSSIAN SSR:** R. Moscow via Orsha, 7105, "Kremlin" card in 74 days for EE rpt. No rp. (McCarthy-IN).

**CAMEROON:** R. Yaounde, 4972.5, map of world card in 201 days for FF rpt and 1 IRC. (McCarthy-IN).

**CANADA:** CFCX, 6005, card w/o time in 10½ months for an 8¢ Canadian stamp on my 2nd try. (Gaffin-NY).

CFRX, 6070, "Carnival" card w/o time in 25 days. No rp. V/s Clive Eastwood. (Brown-MI); same card in 46 days. No rp. (Schpelliti-MA); same card, sked and station info in 35 days for 1 IRC. (Brindle-PA).

CHNX, 6130, plain white card w/o time in 7 days. No rp. V/s Judy Carruthers. (Ashenhurst-ONT).

CHU, 3330, card w/freq only in 2 weeks. No rp. (Raper-GA).

DW Relay, 6085, f/d "20 Jahre DW" card w/Sackville site in 16 weeks. No rp. (Vockeroth-PA); same card in 101 days. No rp. (Poppin-CA).

**CANARY IS:** RTVE, 11800, antenna card in 2 months for 2 f/ups rpts and 3 IRC's. (Wilson-WV).

**CHILE:** R. Minería, 9750, EE/SS letter w/all freqs and date in 6½ weeks. V/s Manuel Vegara Llanca. (Schulman-NY).

**CHINA:** R. Peking, 9940, card w/o time and pennant in 18 days for EE rpt and local postcard. (Gower-IL); blue card and sked in 13 days for 2 IRC's. They said magazines of life in China are on the way. (Thompson-PA).

**COLOMBIA:** La Vox del Huila, 6150, f/d letter (with freq given as 4965 kHz) and pennant in 6 months for SS rpt and 2 IRC's. (Gaffin-NY).

Emissora Nueva Granada, 6160, SS letter w/date only in 4 weeks for SS rpt and 1 IRC. (Bishop-PA).

**CONGO:** RTV Congolaise, 15190, f/d letter in 20 days for EE rpt and 2 IRC's. (Delap-AR); f/d form letter stapled together w/stamp on back in 33 days for EE rpt, 1 IRC and local postcard. (Gower-IL); letter and sked in 85 days. (Scott-ONT); f/d FF form letter and sked in 29 days for 2 IRC's and FF rpt. (Trautschold-WI); f/d mimeo letter in 1 month for FF rpt and 2 IRC's. (Clare-GA); f/d FF letter in 5 weeks for FF rpt and 1 IRC. (Brown-MI); f/d FF letter in 18 days for EE rpt and 2 IRC's. (Quinn-NY); f/d letter in 1 month for Gilfer tri-lingual rpt and 1 IRC on my 3rd try! (McNeil-DC).

**COSTA RICA:** TIFC, 9645, f/d card and letter w/station info in 15 days for a mint stamp. Letter from Mary H. Steele lists power as 500 watts for 9645 kHz and 1200 watts for 6175 kHz. (Oliver-PA); card and nice EE letter in 16 days for 1 IRC. (Beaudoin-CT); f/d card in 16 days for 1 IRC. (Conover-PA): 6175, f/d card w/multilingual Bible come-on in 5 months. No rp. (Fine-IL).

R. Reloj, 6006, letter in 2 months for 2 IRC's. (Capobianco-NY).

R. Capital, 4832 and R. Reloj, 6006, a letter from the prgm "Aqui Costa Rica" confirming my reception of the prgm on both stations. Nice stamps and nice letter w/full data for EE rpt in 2 weeks. No rp. V/s Roberto Aragon. (Fine-IL).

**CUBA:** RHC, 17750, f/d card in 3½ months. No rp. (Noonan-WI): 11725, card in 2 months. (Barto-CT): 11815, f/d card, sked in 8 weeks. No rp. (Brown-MI): 11835, card, 2 RHC decals, 2 coat-of-arms, letter, 7 pocket calendars and a description of calendars sheet for 1 IRC and a letter asking for a pennant. Is this sarcasm? (Scott-ONT): 9525, f/d card in 28 days. No rp. They also sent 7 wallet calendars featuring revolutionary leaders on the front. (Biasini-ALB); f/d card and pin in lieu of pennant in 51 days. No rp. (Watson-BC): 11725/11930, cards and sked in 56 days. (Ashenhurst-ONT).

**CYPRUS:** BBC Relay, 9605, no-data Thames card in 2 weeks. No rp. Relay site on card per my request. (Raper-GA).

**CZECHOSLOVAKIA:** R. Prague, 5930, f/d card in 15 weeks. No rp. (Vockeroth-PA): 7345, card and questionnaire in 62 days. No rp. (Scott-ONT): 6055, card in 21 days. No rp. (Ashenurst-ONT): 9530/7345, cards in 1 1/2 months for 1 IRC. (Rockwood-OH): 9605, f/d card in 41 days for 2 IRC's. (Ward-BC): 11990, f/d card in 28 days. No rp. (Richardson-NY).

**DENMARK:** R. Denmark, f/d card in 5 weeks for EE rpt and 3 IRC's. (Bishop-PA).

**ECUADOR:** R. Zaracay, 3390, letter and small pennant in 25 days for mint stamps. V/s Elsey Cun C., Secretaria. (Sparks-CA); letter and pennant in 3 weeks for SS rpt. No rp. (Legge-VA).

R. Casa de la Cultura, 4930, card and prgm booklet in 1 month for SS rpt. No rp. (Legge-VA).

HCJB, 9760, f/d card and sked in 4 weeks. No rp. (Brown-MI): 9560, card, sked, ANDEX info in 27 days for 2 IRC's. (Thompson-PA); card in 40 days. No rp. (Cooper-OH): 11965, card, Pifo xmtr view, sked, religious info and Shigra souvenir in 5 1/2 months. (Padula-AUST): 6130/17715, f/d cards in 7 1/2 months. No rp. (Wala-MI): 6095/9560, cards in 56 and 42 days w/regular ANDEX mailing. No rp. (Biasini-ALE).

**EGYPT:** R. Cairo, 9805, f/d card, postcard and sked in 41 days for EE rpt and 3 IRC's after 1st f/up. (Ward-NE): 9475, f/d card in 4 weeks. No rp. (Bishop-PA).

**ENGLAND:** BBC, 15390, card w/freq and "Russian" written in upper right hand corner in 20 days. No rp. (Delap-AR).

VOA-Wofferton, 11960, f/d "VOA 30 Year Anniversary" card in 13 days. No rp. (Brunner-PA): 6040, Capitol card in 5 days. (McNeil-DC).

**ETHIOPIA:** ETLF, 7165, f/d card in 3 months for 3 IRC's. (Barker-TX); f/d card in 8 weeks for EE rpt and 2 IRC's. (Raper-GA): 11830, f/d blue/white card, sked and sked in 3 months for EE rpt. (Gercken-IL).

**EUROPEAN RSFSR:** R. Moscow, 7350, f/d card, rpt form in 36 days. No rp. (Ihnat-PA); f/d card and very nice letter from Mrs. Lucy Larina in 31 days. No rp. (Poppin-CA); card in 37 days for 1 IRC. (Rockwood-OH): 7110, f/d card in 40 days. No rp. A letter from Mrs. Larina stated that I had to send 5 correct rpts on the NA Svc before I could receive a pennant. (Biasini-ALE): 9710, f/d card and FF sked for EE rpt on FF xmsn in 6 weeks. (Brown-MI): 6070, card w/o site and RR calendar in 44 days. No rp. (Ashenurst-ONT): 7150/7205, card in 20 days. No rp. In the rpt I asked why they used so many 41 mb freqs. Didn't they consider all the "ham" stations? Their reply: "We use many freqs." How's that for an explicit answer? (Nicolosi-NJ).

Transmitter site cards....R. Moscow via Sverdlovsk, 7100, card in 1 1/2 months. (Barto-CT). Via Tula, 7250, card in 1 1/2 months. (Barto-CT): 17765, card in 99 days signed by O. Rakito who also answered my question on CSL. No rp. (Beaudoin-CT): 12050, f/d card and tiny pennant in 25 days. I doubt the accuracy of the site! (Watson-BC). Via Voronezh, 15295-African Svc, f/d card and rpt form in 7 weeks. No rp. (Vockeroth-PA). Via Michurinsk, 9770-South Asian Svc, card in 25 days. No rp. (Beaudoin-CT). Via Armavir, 7200. Via Ivano-Frankovsk, 7115. Via Yuzhno-Sakhalinsk, 7350, one card verifying these 3 stations in 28 days w/skcd, prgm info. (Schipelliti-MA). Via Armavir, 9800-African Svc. Via Gorky, 11860-SEA Svc. Via Michurinsk, 9775, SAS Svc. Via Moscow, 7230/7380-LA Svc in SS. Via Moscow, 7400-African Svc. Via Zhigulevsk, 7215-NA Svc, cards in 30 to 45 days. (Legge-VA)

Radio Station Peace and Progress, 11765, green card w/time, date and 25 mb in 3 months for EE rpt. No rp. (Overcamp-SC).

**FINLAND:** R. Finland, 15185, f/d "Winter" card, sked and copy of "Hear Finland" in 3 weeks. No rp. (Vockeroth-PA): 15105, "Winter" card and sked in 3 weeks. (Padula-AUST).

**FRANCE:** RFI, 9715, "Eiffel Tower" card, pennant in 4 weeks. (Padula-AUST): 15210, f/d orange ORTF card, pocket calendar, sked in 18 days for EE rpt. No rp. (Sheehan-ONT); f/d "L'Arc de Triomphe" card, sked and 2 blue/white plastic pennants in 68 days for 2 IRC's. (Ward-NE): 11930, same card, sked, pennant in 49 days for EE rpt and 1 IRC. (Brindle-PA).

**FRENCH GUIANA:** France Regions 3, 3385, no-data card w/freqs listed in 2 months, air, for 2 IRC's. (Rockwood-OH); same no-data card in 3 weeks for NASWA FF rpt and 2 IRC's. (Overcamp-SC).

**GERMANY (E):** RBI, 9730, card in 2 1/2 months w/letter promising pennant and mags which arrived later. (Capobianco-NY): 11890, card in 138 days for EE rpt and 1 IRC. (McCarthy-IN): 6040, f/d "DX Club" card in 90 days for SS rpt on SS xmsn. No rp. (Conover-PA).

**GERMANY (W):** Deutsche Welle, 7235/7175, cards in 4 months. (Barto-CT).

RPE, 3990, f/d card from Munich in 3 weeks. No rp. (McNeil-DC).

**GHANA:** GBC, 9545, card in 2 years, 4 months, 8 days for Nov. 1973 rpt on Giller form. No rp. No f/ups. Card was stapled at 2 places to sked which served as the envelope. (Stauner-WI). (Every time I think I've heard it all, something like this pops up! ed). 4915, f/d card, sked in 4 months. (Scott-ONT); f/d card in 94 days for EE rpt and 1 IRC. Also received sked dated Nov. 1974 (Watson-BC); card, sked in 1 year, 4 months for 1 IRC. (McNeil-DC): 11850, f/d card, sked in 4 months for 2 IRC's. (Vockeroth-PA).

**GREECE:** VOA-Kavala, 7170, card and sked in 7 days. No rp. (Vockeroth-PA):

7270, Capitol card dated as requested in 7 days. (Barker-TX).

V. of Greece, 9760, black on white card similar to previous EIRT card in 3 weeks. No rp. (Legge-VA); card, sked in 3 weeks. (Padula-AUST): 9520, card and sked in 25 days. No rp. (Sparks-CA); f/d white card in 17 days. No rp. (Watson-BC); f/d letter in 29 days for 1 IRC. V/s I. Lampas. Address: EPT (Greek R-TV), P.O. Box 19, Aghia Paraskevi, Athens. (Hardester-CA): 9615 (via VOA-Kavala), card, sked in 3½ weeks. No rp. (Cosier-AUST). GREENLAND: Gronlands Radio, 9575, folder in 65 days for EE rpt and 1 IRC. (Smith-NY).

GUATAMALA: R. Cultural (TGNA), 3300, letter and QSL card in 2 weeks for 1 IRC. (Capobianco-NY).

GUINEA: Rdiff. Nationale, 7125, stamped letter verie in 45 days for 2 IRC's (Capobianco-NY); form letter in 6 weeks for FF rpt. No rp but they ask for 2 IRC's for future correspondence. (Legge-VA): 9648, letter in 3 months. (Barto-CT).

GUINEA-BISSAU: R. Nacional da Rep. da Guinea-Bissau, 5041, card in 97 days for EE rpt and 1 IRC. (McCarthy-IN).

GUYANA: GBS, 3290, letter in 28 days for EE rpt and 1 IRC. (McCarthy-IN); f/d form letter in 39 days for EE rpt, 1 IRC and local postcard. V/s M. Semple for Denis Leandro. (Gower-IL); FF/EE letter in 2 weeks. No rp. (Bishop-PA).

HAWAII: WVVH, 15000, f/d folder card in 1 month. No rp. (Clare-CA): 10000, folder card w/o time in 16 days. No rp. V/s C.L. Trembath. (Watson-BC).

HONDURAS: HRVC, 4820, map card w/date only and sked in 14 days for EE rpt. No rp. (Folsom-OH); same card in 25 days for EE rpt and 1 IRC. (Stuart-OK); date-only card in 13 days for 2 IRC's. (Crater-KS); card in 12 days for 3 IRC's. (Bishop-PA).

R. Progress, 4920, letter-QSL and pennant in 1 month for 2 IRC's. (Capobianco-NY); letter in 11 days. (Legge-VA); f/d letter in 30 days for SS rpt and mint stamps. Postage on verie was 18 Centavos. V/s Jerry E. Tolle. (Hardester-CA).

R. Swan, 6185, letter in 1 month for SS rpt. No rp. (Legge-VA).

HUNGARY: R. Budapest, 6025, f/d card and Monitor Club info in 90 days. No rp. (Delap-AR): 6000, f/d card in 1 month for monthly rpt. No rp. (Watson-BC): 5965/7220, f/d card, RBSCW emblem and pennant in 1½ months for RBSCW rpt form. No rp. (Wala-MI).

INDIA: AIR-Bombay, 15080, f/d colorful "Lady With a Mirror" card and sked in 169 days, surface mail, for EE rpt and 1 IRC. (Mayer-IL): 9525, card in 5 months for 2 IRC's. (Capobianco-NY).

INDONESIA: RRI-Ambon, 7140, II letter w/all data in 66 days for EE rpt and 1 IRC. (Smith-NY).

RPD-Sidoarjo, 3893, letter in 3½ weeks, air, after II f/up. No rp. (Cosier-AUST).

RDK-Pandeglang, 3342, letter and staff photo in 13 weeks, air, for II rpt. V/s Bukhara Isra. Address: Jln. Alun-Alun Utara #1, Pandeglang, Jawa Barat. (Cosier-AUST).

IRAN: V. of Iran, 15084, f/d card, sked in 4 weeks. (Brown-MI).

ISRAEL: IBA, 7412, f/d card, pamphlet, sked in 35 days. No rp. (Folsom-OH); card in 60 days. (Guarducci-BC): 9815, f/d card in 39 days. No rp. (Biasini-ALB); card, sked in 6 weeks. (Wasserstrom-NJ); f/d card, sked and book on Israel in 73 days. No rp. (Sheehan-ONT).

ITALY: RAI, 6010, f/d "Il Settecento Italiano" card in 14 weeks for EE rpt. No rp. (Vockeroth-PA); f/d "Rachele Scaccia gli Idoli" card in 68 days for EE rpt and 1 IRC. (Conover-PA).

JAPAN: R. Japan, 15300, Doll card w/o time, pamphlet, sked and other info in 15 days. No rp. (Folsom-OH); f/d "Yakko" card in 30 days. No rp. (Delap-AR); "Hakata" card, sked and NHK info in 20 days. No rp. (Stuart-OK): 7150, card, sked, calendar and newsletter in 2 weeks. (Padula-AUST): 9505, Doll card in 20 days. No rp. (Biasini-ALB): 15105, Doll card w/o time, sked, rpt form, R. Japan News, etc in 17 days. No rp. (Brindle-PA): 15195/15105/15270, card in 18 days w/full data including date, time, freq and signature. I got the signature w/full data by asking for it after my 24th rpt. Who else has a QSL signed by the NHK people? (Dunn-NJ): NHK, 6006-Fukuoka/3970-Sapporo, cards in 10 and 15 days. No rp. (Cosier-AUST).

JORDAN: R. Jordan, 9560, card in 17 days for 2 IRC's. (Capobianco-NY).

KIRGHIZ SSR: R. Moscow via Frunze, 6080, card in 5 weeks. (Cosier-AUST).

KOREA (N): R. Pyongyang, 9420, QSL card and books in 48 days on my 2nd try. (Guarducci-BC).

KOREA (S): R. Korea, 9640, f/d "Hyangwon Pavilion" card, yellow pennant and KBS emblem in 29 weeks for 1 IRC. Christmas card was received after 16 weeks. (Wala-MI); "Shinhung Temple" card in 269 days for EE rpt and 1 IRC. (McCarthy-IN): 9640/15335, f/d "Maitreya Buddha" card in 210 days. No rp. (Rojewski-WA).

KUWAIT: R. Kuwait, 11940, f/d folder card in 7 weeks for 1 IRC. (Brown-MI) 15415, same card and sked in 9 weeks. No rp. (Vockeroth-PA).

**LIBERIA:** ELWA, 11950, f/d "Native Drummer" card, sked in 13 months for 1 IRC and EE rpt. (Trauttschold-WI); same card in 1 year for 1 IRC. (Legge-VA): 11945, f/d card, sked and stamps in 9 weeks for 1 IRC. (Brown-MI): 4770, f/d card, sked, pamphlet and Liberian stamps in a mere 17 months, sea mail, for 1 IRC. (McNeil-DC).

VOA-Monrovia, 15445, Capitol card and 6 EE skeds in 4 days. No rp. (Thompson-PA).

**LITHUANIAN SSR:** R. Vilnius, 9505, card in 7 months for 2 IRC's and EE rpt. (Lausevich-WI): 9520, f/d card and pennant in 7 months. No rp. Site not listed as requested. (Gaffin-NY).

R. Moscow via Faunas, 11870, f/d card in 1 month from good ol' Eugenia. (Barker-TX).

**LUXEMBOURG:** R. Luxembourg, 6090, card in 77 days. No rp. (Scott-ONT).

**MALAGASY REP:** R. Madagascar, 17730, f/d card in 8 months for EE rpt and 3 IRC's. (Barker-TX).

R. Nederland Relay, 11730, f/d card. No rp. Letter preceded card apologizing for 3 month delay. (Fine-IL); "Perspective" card, sked in 4 months. (Scott-ONT); f/d card in 34 days. No rp. (Watson-BC); f/d EDXC card in 11 days. (Richardson-NY); f/d "Tom Meyer" card, sked, Happy Station sticker in 59 days. No rp. (Brindle-PA): 15185, card in 4 weeks for rpt prepared while at Grand Canyon during my recent USA trip. (Padula-AUST): EDXC QSL in 30 days. (Beaudoin-CT).

**MALAYSIA:** R. Malaysia, 7295-Penang, colorful f/d folder card in 9 months for stamps and 2 IRC's. (Barker-TX).

BBC Relay, 11750, card w/full data as requested showing time, date and freq in 3 weeks. (Barker-TX).

**MAIL:** Rdf. Mail, 5995, most detailed card ever seen received in 49 days for EE rpt and 2 IRC's. (Delap-AR); usual card in 2 months for rpt to Bamako and 2 IRC's. Also received a letter in 3 weeks from Washington for rpt sent to Embassy there. V/s Alpha Amadou Diaw. (Zabransky-NJ).

**MALTA:** AWR, 6055/9635, cards and sked in 8 and 4 weeks for 1 IRC. (Padula-AUST): 9755, 3 cards (!) in 12 days for f/up. (Cosier-AUST).

DW Relay, 6100, usual multicolored card in 3 months. (Lausevich-WI); same card w/full data in 86 days for EE rpt. No rp. (Ashenhurst-ONT).

**MARTINIQUE:** Fort de France, 3315, card w/date only in 14 days for EE rpt, 1 IRC and local postcard. (Gower-IL).

**MEXICO:** R. Mexico, 15385, f/d letter in 215 days. No rp. V/s Manuel Cerrillo L. (Watson-BC); f/d letter in 176 days for EE rpt. No rp. (Rojewski-WA); 15125, verie letter and sked in 160 days for SS rpt and 1 IRC. (McCarthy-IN).

**MOMACO:** TWR, 7105, f/d card, sked in 13 days for 2 IRC's. My European #30 verified. (Brunner-PA); f/d card, pennant in 32 days for EE rpt. No rp. (Biasini-ALB); card in 30 days for EE rpt and 1 IRC. (McCarthy-IN).

**MOROCCO:** R-TV Marocaine, 15360, no-data map card showing station locations in 80 days, air, for FF rpt on AA prgm and 2 IRC's. (Conover-PA): 6170, no-data folder card in 2 months. No rp. (Schulman-NY).

**MOZAMBIQUE:** R. Mozambique-Maputo (postmark still says Lourenco Marques), 9620, colored card showing world map w/Mozambique prominent. This freq very rarely heard here. Only possible via long path during early part of the year. (Padula-AUST): 4962-Nampula, PP letter from v/s A.D. Graca confirming "weak power" in 3 1/2 weeks for PP f/up. No rp. Also, 7 days later, new card from Maputo in yellow/blue with world globe giving QRP as 250 watts and other full details. My best African! (Cosier-AUST).

**NETHERLANDS:** R. Nederland, 11730, f/d EDXC card, reply from Dick Speekman on CSL policies of LA countries in 100 days. No rp. (Poppin-CA); EDXC card and DX Courses booklet in 12 days for 1 IRC. (Thompson-PA); f/d "Happy Station" card in 13 weeks. No rp. (Richardson-NY): 9715, card and sked in 12 weeks. (Wasserstrom-NJ).

**NETHERLANDS ANTILLES:** R. Nederland Relay, 11730, card in 3 weeks. (Bartoc-T): 17810, Studio card in 22 days. No rp. (Beaudoin-CT): 6165, f/d EDXC card in 20 days. No rp. (Stuart-OK); f/d card, sked and form in 65 days for 1 IRC. (Moss-CA); f/d card in 55 days. No rp. (Biasini-ALB); card, sked, stickers, lapel pin and other "radio goodies" worth waiting for in 93 days for 1 IRC. (Ashenhurst-ONT); f/d EDXC card in 31 days for 2 IRC's. (Ward-NE); f/d new "Dimensions" card in 4 weeks. No rp. (Bishop-PA): 9715, f/d EDXC card in 10 days. No rp. (Rojewski-WA); f/d verie letter in 8 weeks. No rp. (Brown-MI): 6165/9715, f/d EDXC card in 11 days. No rp. (Poppin-CA).

TWR, 11815, card and sked in 18 days for 1 IRC. (Beaudoin-CT): 11925, plain card w/time and freq, sticker, religious info and info on xmtrs and Blainaire in 21 days for 1 IRC. V/s Donald J. Beams. (Ashenhurst-ONT); f/d card in 21 days for 2 IRC's. (Conrad-IA).

**NEW CALEDONIA:** R. Noumea, 7170, blue/orange map card w/o specific freq in 20 days, air (25 F stamp), for 1 IRC and mint US stamps. (Cramton-IL); card in 7 weeks for FF taped rpt and mint stamps. (Ball-ONT); card w/time and date in 18 days for EE rpt, 3 IRC's, and local postcard. (Gower-IL).

**NEWFOUNDLAND:** CKZN, 6160, f/d card for 1960 reception of CBNX on 5970 kHz.

V/s F.H. Holm, Nfld Regional Director. (Barto-CT).

NEW ZEALAND: RNZ, 11780, f/d "Rugby" card in 11 days for EE rpt. No rp. (Poppin-CA): 15110, card and sked in 6 weeks. (Wasserstrom-NJ): 9540, f/d scenic card in 46 days for EE rpt. No rp. (Biasini-ALB).

NIGERIA: VON, 7275, f/d green/white flag card and sked in 54 days for 2 IRC's and EE rpt. Card is uneven and color is missing. (Moss-CA).

NORWAY: R. Norway, 15175, f/d "Winter in Norway" card in 18 days for 1 IRC. This is one of the most beautiful cards I've ever seen. (Rockwood-OH).

OMAN: Oman Broadcasting Station, 11890, CSL card w/view of Fanja in 44 days, air, for EE rpt. No rp. Old 4962 rpts unanswered. (Cosier-AUST).

PAPUA NEW GUINEA: NBC, 4890, letter in 2 months from C. Ketsimur. (Barto-CT); 1/d letter in 136 days. No rp. Three IRC's required for return air mail. (Conover-PA); f/d letter and sked in 164 days. No rp. (Cramton-IL); f/d form letter in 20 days for 1 IRC. C. Ketsimur's name was printed on the letter but he didn't actually sign it. (Gaffin-NY): 4890/9520, verie letter and sked after f/up in 3 months for 3 IRC's. (Poppin-CA).

R. East Sepik, 3335, long verie letter from Ephraim Noah station clerk, in 17 days for 1 IRC and postcard. (McNeil-DC).

PARAGUAY: R. Nacional, 6025, personal verification letter by registered airmail from Carlos Montaner in 5 months for SS rpt. No rp. In his letter Mr. Montaner says they will soon be at 100 kw. I think we have heard this before. In any event, another 100 kw transmitter will be most welcome on 49 meters, hi1 (Moritz-OH); registered SS letter in 170 days for SS rpt and 1 IRC. (Smith-NY); letter verie w/freq only in 4 months, registered air, for NASWA SS rpt, 1 IRC and postcard. (McNeil-DC).

PHILIPPINES: R. Veritas, 15135/9570 (test freqs), card, sked, station info prgm guide and letter from Margaret Cheng. First card in 4 weeks, 2nd in 9 months after f/up. Original CSL never received. (Padula-AUST).

VOP, 9580, card, sked and questionnaire in 95 days for EE rpt and 1 IRC. V/s Ernesto G. Madrid. Also received promise of mini-flag decal, magazines or view cards and many more things in store for me. (Moss-CA).

FEBC, 15440, f/d "Local Village" card, sked and religious info in 37 days for EE rpt and 3 IRC's. (Moss-CA); card in 134 days for 1 IRC. (McCarthy-IN): 7225, card and sked in 85 days on my 3rd try for a mint stamp. (Guarducci-BC); f/d card in 42 days for 1 IRC. The letter was highly perfumed! V/s Joan Ross. (Biasini-ALB). (Highly perfumed? What did you put in that rpt, Gary? ed.) 6030, card for Philippines Svc in 3 months for EE rpt and 3 IRC's. (Overcamp-SC).

VOA-Tinang, 6110, Kennedy Center card in 7 days. No rp. (McCarthy-IN); Capitol card in 5 days. (McNeil-DC).

POLAND: Polish Radio, 7285, f/d "Millennium" card, sked and letter from Lech Stanislawski in 53 days. No rp. That did it! I have their 3 "Map" cards and 2 "Monument" cards so now I can try for their pennants, which take about 20 million rpts on the NA Svc. (Gaffin-NY): 9540, f/d card in 48 days. No rp. (Quinn-NY).

PORTUGAL: Emisora Nacional Portugal, 15125, beautiful card in 1 1/2 months. (Barto-CT); f/d card in 3 weeks for 2 IRC's. (Bishop-PA): 6025, f/d card in 2 weeks for 1 IRC. (Clare-CA); f/d "Estufa Fria" card in 32 days. No rp. (Brown-MI); "Old City" card, PP sked in 12 days for 2 IRC's. (Brindle-PA).

AWR, 9670, f/d orange card in 1 month for 2 IRC's. (Rockwood-OH) f/d card, sked and letter from Andrea Paize in 22 days for 1 IRC. Letter states, "We foresee being able to continue broadcasting indefinitely--as long as there are people willing to support our efforts, and that number has increased substantially recently. (Brown-MI).

IBRA Radio, 9670, f/d card and literature in 65 days for EE rpt and 1 IRC. (Smith-NY).

RHODESIA: RBC, 3396, f/d "Gazelle" card in 13 days for 1 IRC. (Cohen-NJ).

ROMANIA: R. Bucharest, 7225, f/d card, "Thank You" note, pennant, labels and letter saying my 1st rpt has been entered in their Listeners' Club. (Gercken-IL): 17790, card in 12 weeks. (Padula-AUST): 9690/11940, f/d cards and a "martisor", which is a traditional Romanian "good luck" amulet, in 44 and 39 days. No rp. (Wala-MI): 5990, f/d card in 72 days for aerogramme rpt. No rp. (Watson-BC): 11940, f/d card and martisor in 36 days. (Conover-PA).

RWANDA: DW Relay, 7225, high gloss card in 3 weeks. (Capobianco-NY): 7175, f/d "DW-Afrika" in 121 days for EE rpt on GG prgm. No rp. Rpt was sent to Cologne. (Gaffin-NY).

SAUDI ARABIA: BSKSA, 11890-Riyadh, card in 3 months. V/s Sadek Fayonmie. (Barto-CT): 9730, card in 45 days for EE rpt and 1 IRC. (McCarthy-IN).

SENEGAL: R. Senegal, 4980, f/d "Banjo" card in 29 days for EE rpt, 1 IRC and local postcard. (Gower-IL).

SEYCHELLES: FEBA, 15325, f/d map card, sked and letter in 8 weeks for 2 IRC's. V/s Mary Berry. (Brown-MI): 11785/9605, 2 cards and sked in 3 1/2 weeks for 1 IRC. (Cosier-AUST).

SIERRA LEONE: DW Relay-Waterloo, 9630, card w/handwritten details in 8 months. No rp. V/s E. Pele Roberts. Rpts to DW unanswered. (Cosier-AUST).

**SOMALI REP:** R. Mogadishu, 9585, "provisional" CSL letter in 65 days, air. No rp. CSL is addressed to "Dear Dxier." (Slaff-NY).

**SOUTH AFRICA:** R. RSA, 9585, f/d "Crowned Crane" card in 14 days and "SADX Club" card in 35 days. No rp. (Cohen-NJ); same card, sked and RSA Calling in 16 days. No rp. (Sheehan-ONT); f/d card in 2 weeks. (Barker-TX); f/d card in 21 days. (Poppin-CA); card w/wrong freq in 20 days. I asked for a little info on South Africa and they sent me 3 booklets in a big package with the CSL. (Biasini-ALB): 7270, f/d card and sked in 21 days. No rp. (Beaudoin-CT): 11900, card in 20 days. No rp. (Poppin-CA); f/d card and xmr info in 15 days. No rp. (Brindle-PA): 15125, card in 2 weeks. (Padula-AUST): 5980, f/d card in 14 days. No rp. (Mayer-IL); card in 20 days. No rp. (Richardson-NY): 11900/15980, cards and 2 booklets in 1 month. No rp. (Vockeroth-PA): 5980/15155, cards in 30 and 16 days. No rp. (Brown-MI).

Springbok Radio, 4810, f/d "Industrial Montage" card and domestic sked in 18 days. No rp. (Sheehan-ONT): 3250, same card in 24 days. No rp. (Schulman-NY).

**SPAIN:** RNE, 6065, f/d antenna card, pennant and SS sked in 13 days for EE rpt and 1 IRC. (Vockeroth-PA); card and sked in 3 weeks. (Wasserstrom-NJ); "Noblejas Antenna" card w/o time in 53 days. No rp. (Richardson-NY); card w/o time in 50 days. No rp. Freq on card is "6.065 kHz". I asked for sked and pennant but no luck. (Brindle-PA).

**SRI LANKA:** VOA-Colombo, 15150, f/d Capitol card in only 4 days. No rp. Is this a record? (Schipelliti-MA). (No, Peter, McNeil got one in 3 days. ed).

**SWAZILAND:** TWR, 3275, card and sked in 3 weeks for 1 IRC. (Padula-AUST): 9590, card and info in 19 days for 3 IRC's and color portrait of a New England church. (Wiles-WV); foldout card in 24 days for EE rpt and 1 IRC. (McCarthy-IN); f/d "Warrior" folder card and sked in 22 days for 1 IRC. V/s Jenetto Gain. (Hardester-CA); f/d "Native & Antenna" folder card, sked, Swaziland on the Air, and religious info in 28 days for 2 IRC's. (Brindle-PA)

**SWEDEN:** R. Sweden, 15305, f/d antenna site card, sked, pennant and other info in 47 days. No rp. (Folsom-OH); f/d card in 6 weeks. No rp. (Fine-IL); f/d card, sked, pennant and SCDXers bulletin in 77 days for 2 IRC's. (Ward-NE); f/d card, sked, pennant, info sheets and SCDXers bulletin which I requested in 50 days. (Richardson-NY): 9605, f/d card, pennant in 33 days. No rp. (Biasini-ALB): 9765, f/d card, sked and copies of SCDXers in 5 weeks for 1 IRC. (Brown-MI).

**SWITZERLAND:** SBC, 3985-European Svc, lovely card of old Berne in 10 weeks for EE rpt. No rp. (Fine-IL); f/d card in 42 days. No rp. (Cohen-NJ): 6135, card in 8 weeks for rpt prepared while in Orlando, Fla. during my USA trip. (Padula-AUST): 9535, card, sked in 3 weeks. (Wasserstrom-NJ): 15140, f/d card in 5 weeks. No rp. (Brown-MI); f/d card in 43 days. No rp. Sked came 1 week later. (Richardson-NY).

**SYRIA:** Syrian Broadcasting & TV Org, 9655, f/d "Globe" card in 637 days, registered air, 219 days after f/up, for EE rpt and 2 IRC's. Also received pennant and postcard. V/s Khder Omran. (Mayer-IL): 9675, f/d card, small square pennant and postcard of Syria in 7 months, registered air, for 1 IRC and used US stamps. (McNeil-DC).

**TADZHIK SSR:** R. Moscow via Duchanbe, 7135-SS LA Svc, card in 6 weeks. 7300 -African Svc, card in 4 weeks. (Legge-VA).

**TAHITI:** R. Tahiti, 15170, f/d "cartoon" card in 2 months for 3 IRC's. (Barker-TX): 11825, f/d "Thumbs Up" and "Polynesie Francaise Maiden" cards in 71 days after f/up for EE rpt. (Poppin-CA).

**TAIWAN:** BCC (V. of Free China), 11825, f/d card featuring fine glazed twin jars and sked in 55 days for EE rpt and 1 IRC. (Rojewski-WA).

**TANZANIA:** R. Tanzania, 15435, "Sauti Ya Tanzania" card w/o time in 5 1/2 months for 2 IRC's. Power listed on card as 50 kw. (Oliver-PA).

**TUNISIA:** RTV Tunisienne, 7275, card in 3 weeks for EE rpt. No rp. (Legge-VA).

**TURKEY:** V. of Turkey, 9515, f/d card w/time for entire broadcast instead of rpted time in 39 days. No rp. (Noonan-WI); card, sked and pennant in 44 days. No rp. (Scott-ONT); "Karagoz & Hacivar" card w/o time, prgm booklet, silk pennant in 24 days for 2 IRC's. I sent it registered mail. This must have impressed them. (Brindle-PA). (It impresses me, Ed! ed.)

**TURKMEN SSR:** R. Moscow via Ashkhabad, 15185-SEA Svc in Indonesian!, card in 1 month. (Legge-VA).

**TURKS & CAICOS:** VSI8, 4788, regular verie in 4 1/2 months for 3 IRC's. (Capobianco-NY).

**UGANDA:** UBC, 9730, aerogramme in 35 days. No rp. (Scott-ONT): 6030-Soroti, aerogramme CSL w/request for freq selections in 9 1/2 weeks. No rp. V/s M.E.S. Mangan. (Cosier-AUST).

**UKRAINIAN SSR:** R. Kiev, 9780, card w/o freq and sked in 45 days for 1 IRC. (Rojewski-WA): 7150, card in 47 days. No rp. (Conover-PA): 7360, f/d card, sked and DX Club info in 38 days for 3 IRC's which weren't needed. (Ward-NE).

R. Moscow via Vinnitsa, 7165, f/d card in 41 days. (Noonan-WI): 5940, f/d card and Moscow Mailbag text answering my question in 7 weeks. No rp. (Vockeroth-PA). Via Simferopol, 15455, f/d card in 43 days. (Noonan-WI).

UNITED STATES: AFRTS, 6095, card in 11 days. (Beaudoin-CT): 6030, card and sked in 13 days. No rp. (Bishop-PA).

WYFR, 11855, f/d card in 8 days. No rp. (Poppin-CA): f/d card, sked in 18 days. No rp. (Brown-MI): 15440, f/d card in 8 days. No rp. (Crater-KS): 6155, f/d card in 20 days. No rp. I requested a pennant but they typed on the sked that they were sorry, they had none. (Biasini-ALB).

KGEI, 5980, f/d card, sked and calendar in 7 1/2 days. No rp. (Brindle-PA): 9615, card and info in 3 months for 2 IRC's. (Wiles-WV): 11720, card, sked and calendar in 4 months for 2 IRC's. (Padula-AUST).

WINB, 11775, f/d card in 1 month. No rp. (Clare-CA).

WWV, 5000, f/d card in 2 weeks. No rp. (Raper-GA).

UPPER VOLTA: RTV Voltaique, 4815, letter w/full info in 6 months, air, for 2 IRC's. (Wiles-WV); letter w/o time in 362 days for 1 IRC. (Rockwood-OH):

URUGUAY: R. El Espectador, 11835, f/d card like the one in the March CSL Report in 33 days for SS rpt and 2 IRC's. (Gaffin-NY); f/d SS card in 288 days for SS rpt and 1 IRC. V/s Jorge Cubio. (Watson-BC).

UZBEK SSR: R. Tashkent, 6025, f/d blue/red card in 51 days. No rp. (Watson-BC): 15330, card in 4 weeks. No rp. (Cosier-AUST).

VATICAN: Vatican Radio, 11705, f/d "Dome and Antenna" card in 13 days for EE rpt. No rp. (Sheehan-ONT): 15120, f/d "Garden" card in 21 days for EE rpt and 2 IRC's, followed 9 days later by f/d "Antenna" card for the same rpt. (Ward-NB).

VENEZUELA: R. Rumbos, 4970, 25th Anniversary card in 3 weeks. (Barto-CT): 9650, f/d "Caracas" card in 6 months for EE rpt. No rp. Initialed by ASF. (Fins-IL); same f/d card in 7 months for 2 IRC's. (Beaudoin-CT); f/d card in 9 weeks for SS rpt on SS prgm and 2 IRC's. (Clare-CA).

R. Trujillo, 3295, EE letter in 10 weeks, air, for mint stamps. V/s Pedro J. Torres, Director. (Sparkes-CA).

R. Universo, 4880, network map card w/o time in 35 days for 2 IRC's and SS rpt. (Trautschold-WI); usual network card in 38 days for SS rpt and 1 IRC. (Gaffin-NY).

R. Carora, 4910, letter in 3 weeks for SS rpt. No rp. (Legge-VA)

R. Maracaibo, 4860, letter in 3 weeks for SS rpt. No rp. (Legge-VA); f/d letter w/freq listed as "de 740 kHz" in 58 days, air, for SS rpt and mint stamps. Verie postage, 1.05. V/s R. M. Gonzales C. (Hardester-CA).

R. Turismo, 6180, letter w/no specific date although it did verify my details for the date rpted, 2 postcards of Valera and a promise of a sked. Received in 7 months, registered mail, for SS rpt, 2 IRC's and a postcard of the NY Board of Education Building. V/s Antonio J. Garcia. (Gaffin-NY).

YEMEN (PDR): Aden Radio (DYBS), 11770-Al Haswah, card in 3 1/2 months. V/s Abdulasiz Guaidi. (Barto-CT); pink card in 4 months for 1 IRC. (Padula-AUST 7190, card in 3 months for EE rpt and 2 IRC's. (Ball-ONT); pink card w/xmtr drawing in 97 days for EE rpt and 2 IRC's sent by registered mail. EE remarks on card read "I thank you for your reception, report (sic). Good luck." (Slaff-NY).

And for those of you who counted only 115 countries, here's the other one.

LATVIAN SSR: R. Riga, 5935, card in 3 months. No rp. (Zabransky-Nj); nice colored card in 3 months. No rp. (Legge-VA).

\*\*\*\*\*

I am indebted to Roger Legge, McLean, VA for this list of R. Moscow xmtr sites. He made up the list with one or more current (or expected in the summer sked) freqs for each site. Get 'em all!

EUROPEAN RSFSR: Armavir 7205, Gorky 11860, Kalatch 15200, Kalinin 21635, Kazan 11845, Kinghisepp 9760, Kovevo 11850, Kursk 17745, Leningrad 11755, Michurinsk 9775, Moscow 9685, Riazan 15140, Serpukhov 15185, Tula 17765, Volodga 15350, Voronezh 15295, Zhigulevsk 7215.

UKRAINIAN SSR: Ivonofrankovsk 7115/9665, Kharkov 11950, Kiev 11770, Lvov 7120/11900, Simferopol 15455, Starobelsk 1175/7320, Vinnitsa 7165/11735.

BYELORUSSIAN SSR: Minsk 7260/11810, Orsha 7105/9655.

LATVIAN SSR: Riga 7140/15220.

LITHUANIAN SSR: Kaunas 5960/11870.

ARMENIAN SSR: Yerevan 11790.

AZERBAIJAN SSR: Baku 9735.

GEORGIAN SSR: Tbilisi 11755/11805.

KAZAKH SSR: Alma Ata 15210 (winter).

IRISH SSR: Frunze 9710.

TADZHIK SSR: Dushanbe 7300.

TURKMAN SSR: Ashkhabad 11890/11930

UZBEK SSR: Tashkent 11765/15390.

ASIATIC RSFSR: Blagoveshensk 9580, Irkutsk 9685/15210, Ujnsakhalinsk 7260/11860, Kenga 11765, Khabarovsk 17775, Komsomolsk 17900, Krasnoarsk 11820, Nikolaevsk 9735, Novosibirsk 7170/7185, Omsk 7110/15150, Petropavlovsk 15180, Sverdlovsk 11720, Tschita 7270, Vladovostok 6165.

Roger adds that this list is for R. Moscow International Svc and does not include regional stations carrying their own programs. Thanks, Roger.

That's it for this month. Thanks for the response. And remember "Polish Radio leads the way!" (Never mind "Where to", Moritz.)

*Bill*

"GOODIES" POLL RESULTS: Henry Rockwood, St. Clairsville, OH, reports the following:

"Thanks to the members who took the time to reply to the poll in the December 1975 FRENEX. Here's the results.

1. Do you ask for extra items? Yes....70%. No....30%.
2. If so, do you include additional postage? 50% do, 50% don't.
3. What 3 stations have sent the most items? #1. R. Peking; #2. R. Prague; #3. R. RSA and R. Havana. A total of 24 stations received mention.
4. What station has sent the most at any one time? Same as question #3.
5. What is the best single item received? Several items were mentioned with R. Peking's notebook coming in first. Other things mentioned were calendars, books, records, pins and a metric ruler.
6. Do you enter contests sponsored by stations? Yes....70%. No....30%.
7. If so, have you ever won a prize? Yes....58%. No....42%.
8. Best prize won? Items mentioned were books, the BBC pennant, and a French Language Course on records.

If I might use the poll as a representative sampling, it would appear that 2/3's of NASWA members take advantage of the opportunity to learn more about the world through the items available from various stations and the same amount attempt to display their knowledge through the means of the contests.

There are several interesting items available if you ask, and several valuable prizes to be won for a minimum of effort."

You don't see this verie too often anymore.  
I wonder how long it took.

3

### Amalgamated Wireless (Australasia) Limited

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PLEASE ADDRESS ALL COMMUNICATIONS TO  
THE COMPANY AND QUOTE OUR REFERENCE

E. W. Gearhart Esq.,  
1811 Prospect Ave.,  
SPRINGFIELD...OHIO...U.S.A.

20th August 1933.

Dear Mr. Gearhart,

9th August We thank you for your letter of the last, telling us about your reception from this Company's Short Wave Experimental Station, VK3ME, Melbourne.

We are very glad to know that you can tune us in so well, and we are pleased to be able to give you a verification. An examination of our Studio records shows that the items you enumerate were actually transmitted on the date and at the hours you state.

We hope you will enjoy regular and satisfactory reception from us.

Yours faithfully,

AMALGAMATED WIRELESS (Australasia) LIMITED.

*H. Johnston*  
H. JOHNSTON.  
Engineer.

HJ/TE.

Topline tip... GREECE - 9715<sup>nf</sup>, ex-9710, the Sunday GMT relay of the Radio Athens domestic service beamed to Europe has been retimed and is now broadcast from 0500-0730, instead of the former 0600-0830. This, an old Thessaloniki xmt, first drew attention of DXers when QSLs started coming through for this fq proclaiming "R.S. Macedonia" ... which is, of course, the home service that is relayed. (BCMS 4/22)

# DX

# Hotline

Next deadlines:  
5/13 and 5/27

(312) 362-3092



•Editor: Ralph W. Perry

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ETHIOPIA - 4905, ETLF, Addis Ababa, hrd here at 0300 since 3/16, strong enough in spite of usual ute. Unid. earlier because I never tuned before 0300 until 4/25. That is, at 0255, Elisabethan Serenade, ID in EE by TL and OM alternating, then usual drum IS, full ID in EE, "bestg to Ethiopia", then lang. Mostly hymns, sermons, etc. Earlier now? (Vic Jaar, FQ) Vy nice. Previously rpted by Euro's, yours is apparently an MA "first", Vic./Ed.

CAPE VERDE - 3885, although I noticed many names rpted in DIH, my log of 2/27 lists only IDing as "Emissora Oficial da Republica do Cabo Verde", hrd after IS, anthem at 0700. (Jaar)

COLOMBIA - 6000<sup>nf</sup>, R. Super de Medellin at 1040 4/24, ID and tlc, at SIG/332 lvl, must be a new fq. (Jack Jones, Miss.)

ZAIRE - 4837.8, R. Bukavu, noted 2305-2325 w/FF speeches to crowd, native and a couple of US pops, OM ancr in FF between every selection during the DJ pgm running to sign off sequence including EE s/off amnts (at least in part), MA, OC and off 2400:55\* OM hrd in EE saying "special broadcast...president prime minister...good night" and just before anthem mention of Bukavu. Hrd 4/26, fair sig. Heavy, eh? (Whitacre, Mich.) Not only is it heavy, Bill, 'twas also rather Bikuru to send the info to DIH./Ed.

BRUNEI - 7215, R. Brunei noted 4/17 w/poor sig 1120-1200+, ARO problems after 1152, island mx and native pops, OM ancr in lang and poss EE at 1200, finally got enough for a rpt and no Carnavoni (Whitacre)

SOMALIA - 11645, def. Hargeisa hrd 4/17 w/commentary at 1230. QRM from IBA and ute. IBA off at 1300 but Hargeisa had faded by then. (Al Sizer, Conn., via NU) 11645.1, tentative Hargeisa on 4/19, 1210 w/Afro snding mx, lang amnts, over IBA on 11645.0, weak but w/pre-selector and in USB mode surprisingly good. No ID that was understood, though. (Magne, NU)

ANTIGUA/MONSERRAT - Official sources say there are no fqs chosen for the Antigua relay as of 4/12. IFRB must have been surprised to hear that Antigua appears in THFBS for J(76), as shown in LW-6 of April FRENIX. There are no entries in THFBS that I can trace. (Alan Thompson, UK, via NU)

CHAM - 11890<sup>z</sup>, Mascat tentatively at 0246 w/male voice in AA, singing, amnts, other AA mx, etc. until blocked at 0354 by carrier on same fq, 4/22. (Jim Young, Cal.)

ICELAND - 12175, R. Reykjavik, only tentative at 1224 w/tlking in lang, and at 1246. At 1253, some poor mx -- all on unusual day on higher fqs. (Young)

VENEZUELA/HONDURAS - 4827<sup>ny</sup>, confirming Dexter's fears, hrd R. Tachira 0325-0345 4/8 with typical LA fare, SS IDs, not R. Paz (though the stn could have been there, too). Don't know if the horrid hets were caused by a R. Paz, but did get 99% sure IDs for R. Tachira. Next night hrd on 4829 at same time. (Al Laves, Tex.)

SAO TOME - 4807, logging them nearly daily since I first rpted them, with anthem at close. On certain days, reception is quite good, and others, het and QRM are terrible. (Jaar) 4807, carrier noted at 0611 w/het against an OC on 4806, tent., hrd till gone by 0646. The 2300 time slot no good here, hi hi. (Young)

NEW ZEALAND - Today (4/22) R. New Zealand announced a loss in excess of NZ \$1-2 million for the 1975/76 year. As a result, budget for the coming year has been cut by NZ \$700,000 and if additional aid is not forthcoming (through a greater share of revenue from TV licenses) drastic measures will be taken, including cutback in txm hours of the "concert network." Press report indicates that cuts are also expected in the External Service of Radio NZ, but no clarification as yet. If they cut SW back vy much they might be inclined to close it altogether, methinks. (direct from Bryan Clark, Ch.Ed. of NZDI-Times)

CLANDESTINE/NEW HEARDES - 3950, New Zealanders report the 41 meter band outlet of the Voice of Nagriamel ("R. Vanaf" per Yeo via NU - Ed.) is no longer hrd, but this channel in 75 meters continues well hrd to 1000 s/off, though suffering from "Vila 3945 splash dominating by 0830". Island mx, political haranguing in pidgin. This fq h/2 but varies all the way up to 3955, where noted 3/29-30. (Bruce Cavanaugh, NZDX-Times)

AUSTRIA - 6221, Austrian Army R., hrd w/uninterrupted pops to 1901, then German anmts and off 1905 on 3/30. Good from 1830-1859, ID incl. fq, call and address in GG on h/6. Then, "Last Post" by trumpet to s/off 1902. (NZDX-Times)

SWAZILAND - Though SMR has closed down due to loss of advertising revenue, the parent company, Swaziland Commercial Radio, continues with nonstop mx and cmcls 1630-1900; rig pgm in EE to 1930, in Afrikaans to 2000, on 3223. (Korinek, Czechoslovakia, in SADX) 6155, this fq hrd IDing as "SBA Music Radio", w/pgms for Indian listeners in Southern Africa. Indian and western mx, EE and Indian lang anmts. (Colin Miller) "SBA" is Samrod Bros. and Assoc., the company producing the Indian pgming./Ed.

NOW YOU KNOW - New HF xmters produced by Continental Electronics are automatically tuned over the 2 to 30 MHz range, with total fq lock-in within 10 seconds. Alll righteeeee...

INDONESIA - 3961, RRI-Padang, 11h7 t/in to YL w/tlks, Moslem-type chanting, RRI-IS at 1159 on h/17. Ham QRM. (Laves)

h600t, RKPKK Trenggalek?, varied mx hrd, OM tlks in what may have been II, hrd 1220-1230 f/o, very tent. for h/17&19 logs. (Laves)

BOLIVIA - 3390, R. Camargo, new stn, SW only per anmts, presumably located in Camargo, Chuquisaca, though Camargo is also name of a caudillo who distinguished himself in the Bolivian war of independence. Hrd h/4 to 0300 s/off, local Sat., when stn ancd 2245 s/on for following day. (Tony Jones, Paraguay, via NU)

h808, R. LV de la Frontera, new fq since h/1, hrd daily from fade in between 1030 and 1100 past 0200. Power seems 1 kW or less. Located in Puerto Suarez, Santa Cruz, on the Brazilian border. Nom fq not known, as simply announces 60 mb // MW. Though unlist in WRTH, stn has been active at least a couple of years, since R. Norte, Montero, has sometimes been hrd with a joing pgm w/3 or 4 other stns, incl. Frontera. (T. Jones)

h783, R. Ballivan, now definitely IDed, noted several evenings 0030-0050 time slot before disappearing into the QRM. (T. Jones, NU)

h467, R. Movina, 6005 R. Progreso, 6082 R. 21 de Diciembre, 6283y R. Tupiza are seemingly inactive at present, not hrd for several weeks. (T. Jones, NU)

PAPUA NEW GUINEA - NBC will commence commercial pgming June 1 on both MW and SW in EE, pidgin and Motu. (Art Cushen, NZDX-Times)

PERU - 4860, R. Chinchaycocha, noted from 11h s/on, SIC/332, anthem, short mx, ID, fqs, mtas "in the provincia de \_\_\_\_\_", Andes mx. (Jack Jones)

4825, La Voz de la Selva, 1006 h/1, cald, good clear ID, mixing it up with the Dominican. (Jack Jones)

COLOMBIA - 4975, Ondas del Ortega, noted from 0928 s/on, anthem, short mx, ID (I don't think he announced call letters), a MW // (possibly 1160 or 1170), mention of Florencia. Don't recall any SW fq ancd. Also noted arnd 1016 another morn, ID, LA mx, cmcls, tc as "la hora oficial de Colombia" as it pushes its signal thru always-present galloping horse type ute. Spillover from Torbes and Rumbos. (Jack Jones) With Jack and Tony around, this Latin DX-game is surely a matter of "keeping up with the Joneses"/Ed.

COSTA RICA - 4832, R. Reloj, 023h on h/25, ID, tc, LA mx. Anmt is "R. Reloj de Costa Rica." Presume the same as 6006. What has happened to Capital or "Ellas" (as Hauser rpted). Some sort of change going on, I suppose. Also hrd 1030 h/26 w/usual Reloj pgm. (Jack Jones)

HEMIN - 4870, Cotonou with definite power increase (guessing 100+ kW) as jolting signal (S9 on RLB) 2245-2302 s/off w/US native pops, OM in FF w/ID and anmts, NA and off. (Whit)

COMORO - 7260, operating on this fq 0300-1300, and on 3331 at 1330-1930. (WDXC, Germany)

MADAGASCAR - 4980mf, noted w/Halgache svc at 0315. (Korinek)

NEPAL - 11970, Katmandu back to this old familiar fq \*0020-0350\*. (Benelux DX Club)

S. AFRICA - Giant rig stn in the works in Transvaal, built by "Social Adaption and Leaders Info Group", led by Herbertus Delpert. For beaming to commie nations. (C. Riffel, SADX) SABC new studio ctr in Auckland Park to be operational by 2nd half of year, replacing the current "cramped" qtrs. (SADX)





## Section A

Well, here we go for another month. Thanks for some of the letters I have received in response to my taking over the section. My typewriter broke on me, so I am using a different model- if only my Smith Corona worked as well as my SPR-4! Anyway, we have a SUPER-FLASH from Jim Young which should get a lot of us staying up past 0500. Read on to find out. And one final thing- starting May 8, my address will be changing, and any letters should be sent to: 44 Spring Valley Rd., Levittown, Pa. 19056.

- 2200 NICARAGUA La Lider; presumed the one here w/SS nx of Nicaragua, is 2 times 1100; readable 0020 between local noise bursts (Hauser)
- 2340 NEW BRITAIN R. West New Britain; 0925 chants/drum mx, pidgin svc, (Shaw)
- 2360 GUATEMALA R. Maya de Barillas; 1105-1120 w/M in local vernac, ID's, organ and orchestral mx (Jones, Whitacre) 0100 in SS, local mx, vernac //3325 (Zilmer)
- 2376 NEW GUINEA R. Chimbu; 0945 w/chants and worsening signal (Shaw)
- 2390 GUATEMALA R. Atitlan; 0130 w/SS tlk, local mx (Zilmer)
- 2420 GUATEMALA R. Rumbos; new name for R. 1210, strongest MW harmonic audible, 0443 w/10:45 TC, ID, s/off 0608 without anthem (Hauser)
- 3200 CHINA Fuzhou PLA; 1200-1205 with CC tlk, mx, poor (Lineback)
- 3205 BRAZIL R. Riberao Preto; 0037 PP tlk by M, G (McNeil)
- 3215 VENEZUELA Ondas Panamericanas; 1035 w/SS tlk, mx (Field)
- 3220 PAPUA NEW GUINEA R. Morobe; 1148-1203\* inst mx, island mx, choral songs, tlk by M in presumed Pidgin, religious sermon prior to s/off (Moritz)
- 3220 CHINA Peking; HS-1 w/revolutionary songs, CC anncs 2020-2025 (Padula)
- 3223 SWAZILAND SMR; despite reports that SMR was to leave SW at end of Feb., still noted in 1900-2100 period 3/21 w/EE religious px, s/off between 2030-2045, no local ID's (Padula)
- 3225 VENEZUELA R. Occidente; \*1028 anthem, ID (Jones) 0025 w/SS tlk, ID, mx (Miller)
- 3230 SOUTH AFRICA SABC; 0100-0400 EE/Afrikaans svc, tlk by M, pop mx (Five reporters) 1920-1925 PP external svc to Angola (Padula)
- 3235 UNID; IA at 0041, tlk by M in lang SS or PP?, 2 IA songs, lost under UTE (McNeil)
- 3243 IRAQ R. Baghdad; Kurdish tlk 2020-2025 (Padula)
- 3245 VENEZUELA R. Libertador; 2358-0326 SS tlk, many Ads, IA mx, ID's, (Lineback, Miller)
- 3250 SOUTH AFRICA SABC; 2258-0130 w/ tlk by M, Ads and mx, ID's, UTE QRM (Lineback, Schwartz, Ball, Earhart)
- 3252 IRIAN JAYA RRI Merauke; 0947 w/low Western vocals, M hosting px, assumed from DUDXC as ID and hour fit (Shaw) 1403 ID, het with Banjarmasin, then lagu Melaya (Unknown)
- 3255 VENEZUELA LV del Tigre; 1033 SS tlk, IA mx (Jones) 2345-0130 w/IA mx, rock mx, ID's and Ads (Yajko, Whitacre, Miller)
- 3259.5 JAPAN NHK Sendai; HS of rapid JJ monotone monologue 0945; could this possibly be 3 times 1086.5? (Shaw)
- 3260 ECUADOR V. de Rio Carrizal; 0332-0338\* M in SS anmts, short piano riff, orchestral piece, NA (Moritz) 0357\* (Lineback)

- 3265 COOK IS R. Rarotonga; SUPER FLASH! From tip in ARDXC news, found here at 0525 f/in to possible 0902\*, during the 0600-0845 time slot noted running parallel to RNZ on 11780!!! Station peaked around 0830; first time in 10 years, and only the third time logged in 25 years of DXing. (Young 3/21) Sounds incredible Jim, I'm already trying for it-lets hope it makes it to ECNA Bd.
- 3265 UNID; here on 3/22, 0830 w/carrier and very weak audio(Whitacre) What about above?
- 3270 ECUADOR R. Cosmopolita; 0330 Ads in SS, ID by OW, TC, songs, G (McNeil)
- 3275 SWAZILAND TWR; EE religious discussion 2015-2020 (Padula)
- 3275 PAPUA NEW GUINEA R. Southern Highlands; 1133 tlc by M in Pidgin, pop mx, P (McNeil)
- 3280 COLOMBIA Em. Meridiano 70; ID, mx, s/off 0337 (Lineback) They are now on 4926, ed.
- 3280 ECUADOR LV del Napo; \*1007 w/ID, TC, tlc, messages to locals, in vernac. (Jones) 1049-1059\* group singing, M in SS tlc, anmts, at 1059\* abruptly off (Moritz)
- 3287 BRAZIL R. Olinda; 0034 PP mx, tlc by M, Calypso mx (Miller)
- 3290 GUYANA GBS; 0730-0845 w/IS, and s/on 0800, mx and tlc by M in EE, big UTE just below; 0132-0250\* M in EE tlc, nx px, anthem or mx selection and off( 6 reporters)
- 3290 PAPUA R. Central Province; just audible 0845, chants and drums, tlc in Pidgin (Shaw)
- 3300 BURUNDI LVR; 2000-2045, FF tlc, African rhythms, s/off 2100 (Padula)
- 3300 BELIZE R. Belize; 2331-2400 w/EE nx, 2354 TC, ID, into inst. mx (Whitacre) 0215-0230 EE tlc, chamber mx, severe QRTY (Schwartz)
- 3300 GUATEMALA R. Cultural; EE program w/M, mixing with Belize, 0345-0410 (Ravenhorst, Guarducci, Lineback)
- 3315 ECUADOR R. Pastaza; 0349 tlc by M in SS, poss ID, songs, Ads, UTE QRM (McNeil) New on me Pitt, are you sure about this?ed.
- 3316 SIERRA LEONE SLBC; Freetown w/booming signal lately 2255-2332\* pop mx, DJ and dedication px, US rock mx, ID, anmts, freqs, NA and s/off 2332 (7 reporters)
- 3322 BOUGAINVILLE IS R. Bougainville; 1126-1144 tlc by M in Pidgin, rock mx, EE anmts, TC's (Moritz)
- 3325 BRAZIL R. Gazeta de Alagoas; PP tlc, pop mx 0015 (Zilmer)
- 3330 PAKISTAN Peshawar; 1326 w/Urdu mx, heavy flutter (Young)
- 3330 RWANDA R. Rwanda; in clear after Comoro s/off 1930, FF songs, pops, anmts in FF by M&W, partial ID 2015-"Republique Rwandaise" believe first reception reported in Australia of this outlet, best of 90m. Africans this day (Padula)
- 3335 BRAZIL R. Clube Conquista; M px, ID 0033 as "Radio Clube" (Field)
- 3338 MOZAMBIQUE RM; 0407 nx by M in PP to 0412, tlc by W, local mx, (McNeil)
- 3340 ECUADOR R. El Mar; 1122 in SS, IA mx, anmts, "R. El Mar-R. Tropical (Jones)
- 3360 PAPUA NEW GUINEA R. Milne Bay; 1135-1147 EE song, tlc in Pidgin, bad het (Moritz)
- 3365 VENEZUELA R. Puerto La Cruz; IA mx 0130, Ads, ID's ( 5 reporters)
- 3385 PAPUA NEW GUINEA R. East NB; 1156-1200\* stell guitar mx, tlc by M in pidgin, then NA (Moritz)
- 3390 ECUADOR R. Zaracay; 0322-0400 ID's, tlc in SS, Andean mx (3 rpters)
- 3396 RHODESIA RBC; 0400-0500 World and African nx, mx, Ads (6 rpters)
- 3396 NIGERIA Kaduna; 2301 EE nx, NA 2305 and off (Miller)
- 3459 BALTAIS RPKD Bima; 1030 M hosting mx px, island mx, P (Shaw)
- 3514 INDONESIA UNID; RPKD station now here ex 3510 w/own nx 1400 instead of relay (Cosier)
- 3524 MALDIVES RM; 1345 possibly the one reported in ARDXC on 3522, Indian type mx, anmts; needs further checking (Young 3/20)
- 3538 INDONESIA UNID; loud w/het on PIA 3535, Arab/Indo. mx 1345, ID 1358 as "R.P.D. Tingkat II" then Surabaya nx 1400 (Cosier)
- 3549 TIMOR? UNID; 1125 in UNID lang w/possible jamming (Shaw)
- 3885 CAPE VERDE IS RCV; 0005-0100\* PP mx, M in PP tlc, ID's still as "Radio Clube Cabo Verde" excellent signals some nights over ARO QRM (Moritz, Miller, Whitacre)
- 3905 ADMIRALTY IS R. Manus; 0856-1202\* orchestral mx, M anc, lcl and rock mx, EE & Pidgin anmts at end and NA (Moritz, Whitacre, Padula)
- 3910 JAPAN FEN; 1131-1225 w/mx, nx at 1200, severe QRM (Ravenhorst)
- 3925 PAPUA Port Moresby; 1147-1155 island mx and vocals, some EE, // 4890 which was much better (Moritz) 0855 w/orch. mx (Whitacre)
- 3945 NEW HEBRIDES R. Vila; 0850 w/FF tlc by M (Whitacre)
- 3952 GT BRITAIN BBC; 0650-0700 weaker than NF 3970, EE nx 0700, very unusual LP reception (Willis, Padula)

- 3970 GT. BRITAIN BBC; NF here 0700 EE nx (Willis)  
 3995 W. GERMANY DW; GG tlc in African svc 2036 (Padula)  
 3997 VIETNAM HANOI; 1300, this is no longer Viet Bac which was heard here a few weeks ago-beware (Willis)  
 3999 GREENLAND RG; 0000 w/orchestral mx, pops, W ancr. (Whitacre) Sure about this one Bill?  
 4031 N. KOREA Pyongyang; HS 1055 w/tlc in KK, not audible on //4273 (Padula)  
 4040 USSR Vladivostok; 2230 "Mayak" IS & RR px (Behr)  
 4079 MONGOLIA RUB; \*1100, HS-1, into nx in Mongolian by W //4762, 5053 (Padula)  
 4089 INDONESIA RPKDK Blitar; Indo. pops 1255, anmts & ID 1258, "Love Ambon" 1259, RRI nx 1300 (Padula)  
 4425 BOLIVIA R. Paititi; 0236 Bol. songs, SS ancrs; 0336 LA mx w/DJ in SS, 0409\* (McNeil)  
 4466 1/2 BOLIVIA R. Movima(T); 0238 LA song by M, under 2 UTES (McNeil)  
 4603 v BOLIVIA R. Mamore; 0144, beautiful Bol. folk songs, SS ancr (McNeil)  
 4698 INDONESIA RKP Informasi Pertanian Surabaya; Indo. political tlc at 1307 (Padula)  
 4719 SULAWESI RRI Ujung Pandang; 1235-1335 M in Indo (Shaw, Whitacre)  
 4729 BOLIVIA R. Abaroa; 0310 in SS, W reading list of numbers-no this is not a numbers station (Mayer) Just so you're sure, ed.  
 4755 MOZAMBIQUE RM; PP nx 0409-0412//3210, 3338, 4895.5, then local px, but not //4895 (McNeil)  
 4755 BRAZIL R. Dif. Maranhao; 0320 mx px, also at 0830 w/PP tlc (Field Zilmer) Have been assuming this is Maranhao for a while, Marlin ed.  
 4755 COLOMBIA Em. Nuevo Mundo; 0354 w/ID's & intl nx in SS (Schwartz)  
 4762 MONGOLIA RUB; 1105-1130 Mongolian tlc //4079, 5053 (Padula) M just prior to half hour, gong at half, YL w/seeming ID mentioning Ulanbatras (Shaw)  
 4764 SUMATRA RRI Medan; 1555, Indo. mx (Nebron)  
 4765 BRAZIL UNID; 0930 w/mx px, soon faded out-who is here now? (Field)  
 4765 CONGO LVR; noted w/PP nx 2105-2110 on a Friday(GMT)-confirms Ginbey's obs. in SCDXers #1367 (Padula)  
 4770 VENEZUELA R. Bolivar; 0350 in SS w/mx, ID 0400\* (Guarducci)  
 4770 CHINA RP; 1230 in CC w/CC opera (Mayer)  
 4772 ECUADOR R. Cenic; \*1115 w/ID, fqys, NA (Jones) 0337-0403 SS mx, ads, s/off 0430 (Miller, Guarducci, Field)  
 4777 GABON LVR; 2315 in FF pol. tlc, mx, severe QRM (Schwartz) 0432-0523 Afro mx, FF tlc after s/on 0430 (Overcamp, Miller)  
 4780 USSR Petrozavodsk; 0343 RR tik by W, short classical mx, tlc by M, 0400 time pips, RR nx by M&W, bad UTE QRM (McNeil)  
 4782 DOM REP R. Norte; on 3/29 apparently changed fqy, 0242 w/LA pop. mx, frequent ID's to 0305 and again 0950-0955, SS ID 0958; also noted on 4/5 (Field, Jones, Padula, Tuhscherer)  
 4782 MAI RB; 2238 M w/tlc, local mx px, FF (Miller)  
 4785 BRAZIL R. Ribamar; 0310-0320 in PP, ID 0315, samba's (Mayer)  
 4785 TANZANIA RT; Swahili anmts 2103 (Padula)  
 4790 ECUADOR R. Atalaya; listed in WRH, 0300 sports bdest // to 4680 Espejo and ancr ID of R. Nac. Espejo (Field)  
 4790 PERU R. Atlantida; 0457-0530 SS, ID, SS and EE pop mx (Overcamp)  
 4795 BRAZIL R. Dif. Aquidauana(T); mx px, sounded like "Aquidauana" was mentioned (Field) Better make sure of this, Caras on 4795 ed.  
 4795 ECUADOR LV de los Caras; 0310 in SS anmts "Radio LV de los Caras" LA mx (Jones)  
 4797 BOLIVIA R. Nueva America; 1110-1146 w/different ancrs in SS tlc, mentions of "la patria" and "La Paz" (Moritz)  
 4800 ECUADOR R. Pop Independiente; 0455-0523 in SS, Ecuadorian mx, ID's, TC (Field, McLaughlin)  
 4805 BRAZIL Rdif. do Amazonas; 1004 in PP, ID, fqys, Braz. mx, very unusual signal (Jones)  
 4807 SAO TOME(T) ERST&P; 0555 single note being plucked w/singing by a M, 0558 silent, 0559 drum mx, 0600 tlc by M in lang, bells & flute type mx & Afro. mx to 0620 f/out; if Sao Tome, probably 3-5 kw by comparison w/4926 Eq. Guinea (McNeil 4/4)  
 4807 DOM REP R. Norte; 1059 in SS w/LA mx, rel. px at 1102-see 4782 (Jones)  
 4810 SOUTH AFRICA SAB; 0400-0450 Ads, mx, in EE/Afrikaans, TC's cigarette commercials, EE nx at 0430 (Schwartz, Sheehan, Nebron, Hoffman, Detlefsen)  
 4810 ECUADOR LV de Galapagos; 0200 SS, church svc, tlc by M choir songs (Miller)  
 4815 UPPER VOLTA RTV; good signals 2310-0004\* in FF w/M ancr, rock mx, IS at 0002, ID, NA (Whitacre) 2240-2250 pol. contry, ID (Schwartz)  
 4820 GAMBIA RG; evidently still on as of 3/14 2245-2300\* w/M in lang, EE s/off anmts, NA and off (Whitacre)

- 4820 ANGOLA R. Nacional; 11 anmts & local mx 2058 (Padula) 11 nx. by W 2110, ID-"Radio Nac. de Angola em Luanda" (Cosier) 0539-0602 Afro. mx, M in lang tlk till 0548 (Moritz)
- 4820 HONDURAS R. Satellite(T); 0455 pop mx, cuckoo calls, TC's, to 0518\*; ID not clear, same carrier as HRVC-see Nov. LR (Behr)
- 4820 ECUADOR R. Paz y Bien; \*0923 ID, calls, fqys, NA, and into "Noticias Nacionales" (Jones)
- 4820 HONDURAS HRVC; 0300-0441\* usual rel. px, ID's (Crater, Schwartz, Sheehan)
- 4820 VENEZUELA R. Cristal; 0315-0332 in SS, IA mx, ID's-one of many harassing HRVC from time to time (Tuchscherer)
- 4825 DOM REP La Voz de los Fuerzas Armadas; \*1000 anthem, ID, calls, fqys, pop mx, possibly nx 1015 (Jones, Legge) 0130-0358\* IA mx, ID's & NA at s/off, QRM de Radio Mam(McNeill, Mayer, Tuchscherer)
- 4825 PERU LV de la Selva; 1006 in SS, calls, clear ID, mixing it up with Fuerzas Armadas (Jones)
- 4830 MALI RM; 2125-2135 Afro. mx, anmts, 2200 FF nx, more mx, //4783, 5995 (Behr, Padula)
- 4832 ECUADOR R. Luz y Vida; 1056 rel. px-possible new frequency (Jones)
- 4835 SARAWAK RM; 1245 in Malay, W w/nx, F (Mayer)
- 4835 SOUTH AFRICA SABC; usual w/ads, EE nx, stock market, all between 0400-0500 (Schwartz)
- 4837 UNID R. Mali(T); FF African here, maybe Mali on move, 0630-0715 (Willis)
- 4845 BOTSWANA RB; 0404-0515 M anc. in Setswana, soul mx, EE songs, nx in EE 0500 w/local anc. not BBC (Ravenhorst, Schwartz)
- 4845 MAURITANIA Nouakchott; 2215-2400\* in PF, AA, mx (Schwartz, Davis)
- 4845 HONDURAS R. San Isidro; 0340-0410 in SS, IA mx, ID's (Tuchscherer)
- 4845 BOLIVIA R. Fides; 0143 SS by W, "Noticias de Bolivia" mx, and more nx, G (McNeill, Whitacre)
- 4852 YEMEN R. Sanaa; 0312 wailing by OM in AA, some Brazil slopover, G (McNeill 4/7)
- 4855 MOZAMBIQUE RM; 0415 PP Afro/pop mx (Hoffmann)
- 4855 BRAZIL R.Cl Para; 0300 PP tlk by M, mx (Miller) 0929 ads, TC's, ID's, rel. programming 0930 (Jones)
- 4860 PERU R. Chinchaycocha; \*1114 NA, mx, ID's and fqys, Andean mx, (Jones)
- 4865 AZORES Emisora Reg; 2229 operatic mx, ID (Schwartz)
- 4865 COLOMBIA LV del Cinaruco; 0307-0335 nx, CARACOL& local ID's, tlk in SS (Gaffin)
- 4870 BENIN Rdiff. de la Rep. Populaire; 2220 FF w/ID, address by president, Afro mx; power appears to be greater than 30KW as listed in WRTH 76 (Schwartz) 0630 FF nx & ID, 0643 chants (Behr)
- 4871 IRIAN JAYA RRI Sorong; 1124 tlk by W, mx, taken out by Rio Amazonas carrier and anthem at \*1128 (4870)(Jones) 1144-1228 Kroncong mx to 1159:50, pips, RRI nx (Whitacre)
- 4875 SENEGAL RS Dakar; back here again w/AA singing, string inst. mx M in FF briefly, then more mx (Moritz 3/23)
- 4875 BOLIVIA La Cruz del Sur; \*0958, SS ID, into Quechua/Andean mx-s/on appears variable (Padula)
- 4880 VENEZUELA R. Universo; \*1055, mx & anmts; 1112 SS ID's, TC's, mx, etc. (Jones, Padula)
- 4885 KENYA Kisumu; 2050 on late w/East African mx, local requests, vernac tlks through to s/off 2100; not // Nairobi 4915- this outlet doesn't often run this late even on weekends, needs further checks (Padula)
- 4890 HONDURAS R. Lux; 1150-1202 "Esta es R. Lux" w/TC's, ID's, ranchera mx, nx, QRM Papua New Guinea (Jones)
- 4890 SENEGAL RS; 0615-0631 chants in vernac to 0627, FF anmts, into vocal and string mx (Cress, Schwartz)
- 4890 PAPUA NEW GUINEA NBC; 0810-1130 w/mx, rel. px, wx for shipping, 0900 ID, R. Australia nx (Muszynski, Koliomkowski)! More names like those and I'll resign
- 4891 ECUADOR Centinela del Sur; 0403-0422 after Rdiff Venezuela s/off, Ecuadorian mx, ID 0420, anthem (Cress)
- 4896 MOZAMBIQUE Beira; 0406-0438 woman in Swahili tlk presumed until 0410, open carrier to 0418; 0449 M in lang tlk (Moritz)
- 4900 BURUNDI R. CORDAC; 0416-0448 tlk by M in lang sounded like a sermon, Afro. mx & singing, gospel songs, best ever here (McNeill) very poor 0416-0430 w/intermittent audio, organ mx (Whitacre 3/26)

Well, that's all for this month. Had to leave out some of the more common items to keep within the four-page limit, so apologies to any one whose reports did not get in.

Dan

# Log

# Report



## Section B

**\*Editor Sec. B: Kent C. Corson**  
**2269 Graham Circle, Dubuque, Iowa 52001**

- 4904 CHAD RNT; 2050-2122 FF, tlks, world nx, ID (Padula, Schwartz)  
4910 ECUADOR Emis. Gran Colombia; 1058 SS, ID, nx. (Jones 3/30) 0555 SS, mx, nx and off at 0605 (Guarducci)  
4911 ZAMBIA R. Zambia; 0433 vern, ID, Good level (Sherman 3/15)  
4915 GHANA GBC; 2250-2300 EE/vern, cmntry, piano mx (Padula, Schwartz) 0600-0640 EE, nx, cmntry, Afr mx (Cress 4/1, Willis, Aston 3/14, Sheehan 3/24)  
4915 KENYA VOR; 2045-2100 Swahili, tlks (Padula 3/13)  
4915 UNID. 2155 vern/FF, Afr mx, cmntry, drum mx. Didn't sound like Ghana ID in vern. Kenya maybe? (Schwartz 3/20) I would guess not, as they go off at 2015(2115 Sat) and don't usually use FF.KCC.  
4915 COLOMBIA R. Guatapuri; 0439 SS, LA mx, ID (Miller 3/28) (Gaffin)  
4920 HONDURAS R. Progreso; 0125-0200 SS, Adult Ed pgm with mx breaks  
4920 AUSTRALIA ABC Brisbane; 0620-0827 EE, nx, pop songs, tlks (McNeil, Sherman 3/15)  
4923v ECUADOR R. Quito; 0330-0440 SS, ID, mx, nx (Miller 3/14, Cohen)  
4926 COLOMBIA Emis. Meridiano 70; 0035-0102\*v SS, lively LA mx, EE & SS annmnts at s/off, asks for reports and off with NA (Tuchscherer, Gaffin 4/4, Miller 3/26, Field 3/26, Moritz 3/18, McNeil 3/23)  
4930 DOM. REP. R. Mil; 0240-0305 SS, LA & US mx (Tuchscherer 3/26) 0935 LA vocals, ads (Padula 3/29)  
4930t GEORGIAN SSR R. Tbilisi; 1449 beginning to peak till Mayak IS at 1500, piano mx, RR annmnts. Never hrd before here. Ashkhabad also listed (Young 3/19)  
4940 ECUADOR R. Nac. del Ecuador; 0115 SS, mx, ads, ID (miller 3/27)  
1129 SS, ID, freq's, time pips, nx (Jones 4/9)  
4940 IVORY COAST RTVI; 2133-2216 FF/vern, Afr mx, ID, tlk by M (Schwartz Earhart 3/16) 0630 PP, Afr mx (Willis)  
4940 VENEZUELA R. Yaracuy; 0013 SS, ads, annmnts (Yajko 3/20)  
4945 COLOMBIA R. Colosal; 0500 SS, mx, nx, ID (Hoffmann)  
4950 SARAWAK RM Kuching; 1245 CC, tlk by W (Mayer 3/17)  
4959 VENEZUELA R. Federacion Sucua; 0250-0401\* SS, LA mx, some US pops, ID's, nx (Cress 3/22)  
4965 COLOMBIA R. Santa Fe; 0505-0659 SS, mx, ID (Koziomkowski, Hoffmann)  
4965 HONDURAS R. Landia; 1130 SS, early morning show, LA "Country" mx, squawking noises mixed with chatter of 2 anners (Jones 4/2) 0245 SS, TC, ID, US pop songs (McNeil 3/19)  
4970 SABAH RM Kota Kinabalu; 1040-1043 Malay svc, lcl pop mx (Padula)  
4972.5 CAMEROON R. Yaounde; 2138-2200 FF, Afr mx, annmnts (Padula 3/21)  
4975 COLOMBIA Ondas del Ortegua; \*0928-1016 SS, Anthem, short mx, ID, mention of Florencia, freq (possibly 1160 or 1170, but no SW freq hrd), LA mx and ads (Jones 4/6,8) Davenport 3/19)  
4980 VENEZUELA Ecos del Torbes; 2130-2345 SS, songs, ads, ID (Padula,  
4980 SWAZILAND SMR; 0435-0510 EE, "popcorn" IS, pop mx, hrd signing on at 0500 on several occasions (Mayer 4/3, Miller 3/14, Schwartz)  
4980 GHANA GBC; 0645-0700 EE, Afr mx, not as loud as when hrd last year, come via LP (Willis)

- 4985 BRAZIL R. Brasil Central; 0019 FP, ads and into futebol (Miller)  
0650-0900 FP, ads, ID, Brazilian mx (Jones 3/19, Earhart 3/13)
- 4990 VENEZUELA R. Barquisimeto; 0220 SS, mx, ID, EL mx (Cohen 4/4)
- 4990 ARMENIA R. Yerevan; 2145-2200\*, external svc for Europe, Armenian  
pgm, anncmnts, and cl concert (Fadula 3/26)
- 4990 CHINA Chanasha; 2115-2120 CC, tlks, morning svc (Fadula 3/26)
- 4995 PERU R. Andina; 0321 SS, Andean mx, TC, ID (Jones 3/25)
- 4995 NO. VIETNAM Hanoi; 1150-1155 VV tlks (Fadula 3/28)
- 5010 CAMEROON R. Garoua; 2135 Vern, Afr mx (Schwartz 3/20)
- 5015 BRAZIL R. Cultura Cuiaba; 0445-0505 FP, tlk by M (Tuchscherer 3/12)
- 5020 COLOMBIA Ecos del Atrato; 1128 SS, LA mx, ID (Miller 3/28) 0116-  
0401 SS, LA mx, ads, mixed SS/EE announcing letter from listener's,  
ID's (Muszynski 4/1, Ravenhorst 3/27, Yajko 3/18)
- 5020 NIGER ORTN; 2115-2203\* FP, Afr chants, ID by W, close with NA, Good  
Level (Cosier 3/27, McNeil 4/1) 0550-0610 FP, mostly Afr mx and  
short anncmnts (Willis, Schwartz 3/21)
- 5025 ECUADOR R. Splendit; 1121 SS, Andean mx (Jones 3/31)
- 5030 SARAWAK RM Kuching; 1245-1250 lang, M with nx (Mayer 3/17)
- 5030 VENEZUELA R. Continente; 0200-0240 SS, "3300 Segundos con Carlos  
Guzman" (Gaffin 4/3)
- 5035 KAZAKHSTAN SSR R. Alma Ata; 0100 with IS under LA's and cw. Very  
poor sig (Whitacre 3/22)
- 5035 COLOMBIA Voz del Caqueta; 2208-0341 SS, usual LA songs, TC and  
long ID by M (Mayer 3/22, McNeil 4/2, Jones 3/23)
- 5038 CENTRAL AFRICAN REP. RNC; 2204-2255 FP, string mx with M talking,  
also some singing, nx at 2200 (McNeil 4/1, Earhart 3/17)
- 5040 PERU R. Libertad Junin; 0430-0452\* SS, mx, ID (Field 4/3) 0855 SS,  
LA mx (Jones 4/1)
- 5041 GUINEA-BISSAU RNB; 2202-0001\* FP, nx by M, mx, instru and EE pop.  
ID, NA at s/off (Overcamp 4/4, Miller 3/13) 0608-0623 Vern, politic  
speech by M, mx at 0614 (Earhart 3/13) Sorry!!
- 5040 BURMA BBS; 1130 lang, tlk and singing mx (Zilmer 3/31) Out of order
- 5045 BRAZIL R. Dif. Pres. Prudente; 0930 FP, mx pgm (Field 3/17) 0055-  
0105 PP, ID by M, then PP pops (Mayer 3/22)
- 5047 TOGO R. Togo; 2230-2305\* FP, mx, tlk, NA (Conover 3/15, Overcamp,  
Cress 3/17) 0538-0700 FP, pol disc, string mx, FP anncmnts (Willis,  
Schwartz 3/21, Earhart 3/13)
- 5050 VENEZUELA R. Mundial; 0327-0649 SS, pop mx, vocals, frequent ID's,  
TC (Earhart 3/13, Guarducci, Sherman 3/26)
- 5052 SINGAPORE R. Singapore; 1430 EE nx // 5010 (Nebron)
- 5055t BRAZIL R. Educ. Sobral? 2300-2340 PP, steam engine "whistle", tlk  
by M, some mx altho poor modulation. Unable to get a definite ID.  
(Earhart 3/17) Anybody have a definite ID on this one? Often reptd  
but not IDed. KCC.
- 5055 BRAZIL Cf. March LRB; report of Voz do Sao Francisco wrong; they  
are on 4945v, ex 5025 to 0303\* (Behr)
- 5053 MONGOLIA RUB; 1110-1115, HS-1, Mongolian tlks // 4079, 4762 (Fadula)
- 5057 ALBANIA Gjrokaster; 0358-0600 Albanian, tlks by M&W, TC (3 short,  
1 long) at 0500, piano mx (Mayer 3/16, Cress 3/18)
- 5062v MALI R. Mali; 2210-2245 FP, Afr mx // 4830 on 3/23 only (never since)  
(McNeil) // 5995, 4783 on 3/21 (Mayer)
- 5075 COLOMBIA R. Sutatenza; 2212-0358\* SS, ads, nx, ID (Fadula, Hoffmann)
- 5095 COLOMBIA R. Sutatenza; noted back on the air recently with excell  
sig and pgm usual differing from 5075 (Sherman) Date and Time?
- 5163 CHINA RP; 1145 lang, tlk (Zilmer 3/31)
- 5170 CHINA RP; 1155 lang, tlk, sing-song mx (Zilmer 3/31)
- 5882 ISRAEL IBA; 2245-2305\* Hebrew, tlk, NA at s/off (Zilmer 3/18)
- 5900nf USSR RP&P; 1330 EE under RM HS (Willis)
- 5900 ISRAEL IBA; 0500-0515 EE, nx to NAM (Zilmer 3/24)
- 5930 CZECHOSLOVAKIA R. Prague; 0105 EE, disc of Communism (Schwartz)
- 5960 GREECE VOG; 2205 Greek for SAM, ex 6175 (Fadula 3/11)
- 5962 COLOMBIA LV de los Centauros; 0630-0700 SS, LA mx and ID's, still  
annncg 6190 KHz (Behr 3/11, Guarducci)
- 5965 BRAZIL R. Guaiba; 0857-1000 FP, Time pips, ID, tlks (Cosier 3/23  
Jones 4/7, Field 3/29)
- 5965 UNID. 1005 SS, nx and faded out by 1020 (Field)
- 5969 BORNEO RRI Banjarmasin; 1247-1420 Indo, pops, M anncr, RRI IS, nx  
at 1300 (Willis, Whitacre 3/18)
- 5970 PERU R. El Sol; 1108 SS, Andean mx (Jones 3/26)
- 5975 BRAZIL R. Guarujá; 0920 FP, Brazilian mx, good level (Cosier 3/23)
- 5980 USSR R. Vilnius; 2230 EE, s/on with ID (Kozionkowski 3/21)
- 5980.3 PERU R. Panamericana; 0630-0701\* SS, Peruvian mx, ID, varies from  
5979.5 (Behr)
- 5985 ARGENTINA R. Splendit; 0910-1020 SS, light mx, nx, ID and many  
anncmnts. (Cosier 3/23, Field 3/29)

- 5990 ROMANIA R. Bucharest; 0127 EE, IS & ID (Sherman 3/15)  
 5990 UNID. 0800 s/on with IS which sounded like a music box playing one note at a time continuously. M anncr in 3E said "This is Radio.." and then faded out. Later hrd US mentioned, maybe nx? (Detlefsen 4/2)
- 5990 JAPAN R. Japan; 1020-1102 EE, Gen. Svc., nx pgm (Sherman, Jones)  
 5995 AUSTRALIA ABC Lyndhurst; \*0700-1025 EE, "Top 40" pgm, nx, wx, and country mx (Earhart 4/3, Detlefsen 4/2)
- 5995 W. GERMANY DW; 0414-0550 GG, nx, mx, sports (Woltman 3/21)  
 5995 VATICAN R. Vatican; 0102-0115 EE, disc of prayer of Moslems and similarity to Christian prayer (Earhart 3/29) 0125-0128 FF, rel sermon, mx, ID (Schwartz 3/9)
- 5995 MALI R. Mali; 2245-2322 FF, Afr mx (Conover 3/13) 0607 Vern, chanting mx with VOA QRM (Nebron 3/12)
- 6000 HUNGARY R. Budapest; 0200-0220 EE, letters from listener's, mx, ID, off at 0230 (Rojewski 3/25, Sherman 3/21, Schwartz 3/21)
- 6000 AUSTRIA ORF Aldrans; 0625-0635 HS relay for Europe via LP, orch mx and GG anncmnts (Padula 3/27)
- 6005 AUSTRALIA RA; 1215 EE, "week in Business" (Zilmer 3/28)  
 6005A UNID. "R. Super...?" SS cmntry and LA mx, brief mention of Bolivia. QRM from R. Reloj (Lausevich 3/21)
- 6006 COSTA RICA R. Reloj; 0225-0905 SS, sports, mx, ID, TC after every song (Carbone, Conover, Guarducci) 2335 SS, mx, ID (Cohen)
- 6010 ITALY RAI; \*0100-0120 EE, world nx, mx, ID, into FF at 0120 with QRM from DW at 0126 (Schwartz 3/15, Rojewski 3/25, Detlefsen 3/30)
- 6010 VENEZUELA R. Los Andes; 1114 SS, ID, TC, LA mx (Jones 3/23)  
 6010 W. GERMANY DW; 0135 EE, nx, cmntry (Sheehan 3/19)
- 6015 PORTUGAL CBC Sines; 0345 RR, IS, vy poor, noon in Europe (Shaw)  
 6015 BRAZIL R. Clube de Pernambuco; 082400854 PP, vocals, ads, ID, and anncmnts (Jones 3/30, Padula 3/26)
- 6015 PARAGUAY Emis. Paraguay; 1012 SS, tlk, ID, ads, pop mx (Jones 4/7)  
 6015 AUSTRIA ORF; 0520 GG, semi-cl mx (Hoffmann 3/25) (Jones 3/11)
- 6020 PERU R. Nueva Victoria; \*1100 SS, Anthem, Beethoven theme, and ID  
 6020 CANADA RCI; 0220 FF, tlk, mx (Conover 3/11)
- 6025 PORTUGAL R. Portugal; \*0030-0200\* PP, mx, singing, NA (Conover) 0330 PP nx (Carbone 3/17) 0440 EE, nx, cmntry (Schwartz, Sheehan)
- 6025 PARAGUAY R. Nacional; 0928-1017 SS, frequent ID's, mx, tlks. s/on is \*0900 and not \*1200 as per WRTVH-76 (Young, Jones, Field)
- 6030 W. GERMANY Sueddeutscher Rundfunk; 2202-2300 GG, beautiful mx, anns in GG, good until AFPTS s/on (M. Smith 3/14)
- 6030 Cf. March LRB. Report of Venezuela is doubtful as only RN Colombia is here at 1215 (Behr)
- 6035 BOLIVIA R. Panamericana; 1100 SS, ads, pop and rock mx (Jones)  
 6035 LIBERIA VOA Monrovia; \*0300-0545 EE, nx and mx (Muszynski, Hoffmann)
- 6040 E. GERMANY RHI; 0345-0430 SS, cmntry, propaganda (Schwartz, Sherman)  
 6045 SWITZERLAND SBC; 0430-0500 EE, nx, cmntry, IS (Sheehan, Poppin, Aston) 0535 GG, nx, ID (Hoffmann 3/25)
- 6045 SWEDEN R. Sweden; 2300-2330 EE, nx to Nam (Zilmer 3/24, Sherman)  
 6045 FERU R. Santa Rosa; 1128 SS, ID, tlk, mx (Jones 3/10)
- 6045 BRAZIL R. Clube de Paranaense; 0925 PP, many ads, promos and a nice fat ID (Cosier 3/23)
- 6055 RWANDA R. Rwanda; 0417 FF, native pops, W anncr (Whitacre 3/18)  
 6055t BRAZIL R. Panamericana; \*0900 under NSB, many slogans but no ID could be plucked out (Cosier 3/23)
- 6065 SPAIN RNE; 0324-0400\* EE, mx, nx, ID (Guarducci, Hoffmann 3/17)  
 6070 VENEZUELA R. San Sebastian; 0740 SS, TC's for GMT - 4 over continuous mx. CPRX not hrd (Tent.) Cosier 3/8) 1034 SS with US pops, rapid fire tlk (Earhart 4/3) 2230 vis LP (Padula) 0358-0403\* going off the air abruptly after a song (Muszynski 3/29)
- 6070 BULGARIA R. Sofia; 2151 EE, nx, ID (Miller 3/13)
- 6070 CANADA CPRX; 0140 EE, mx, ads (Larson)
- 6075 ITALY RAI; 0435 EE, nx read by W. IS (Aston 3/23)  
 6075 SRI LANKA SLBC; 1440 at Excellent level (Willis)
- 6085 NETHERLANDS RN; 0200-0315 EE, tribute to Eddie Startz with replay of some of his old tapes (Koenig 3/22)
- 6085 W. GERMANY DW; 0230 GG, mx (Manley 3/19)  
 6085 W. GERMANY Bayerischer Rundfunk (Munich); 0620-0800 GG, nx, orch mx, anncmnts (Padula 3/27, Cosier 3/14)
- 6087 TAIWAN BCC; 1355 CC tlks, mx //7150 (Shaw 3/16)
- 6090 NIGERIA RTV Kaduna; 2200-2232 Hausa, native mx, anncmnts by M&W, now at 250 Kw per ADDX (Behr, Sherman 3/17, M. Smith 3/13)
- 6090 LUXEMBOURG R. Luxembourg; 0100-0128 EE, rock mx, DJ tlk, ID, heavy QRM from RCI on 6085 (Schwartz, Sherman 3/15)
- 6090 AUSTRALIA ABC Sydney; 1048-1108 EE, symphony mx, nx on the hour by M, sports nx (Earhart 4/3, Ravenhorst 4/3)

- 6095 ECUADOR HCJB; 0100-0300 EE, DX tips, good plug for NASWA (Koenig, Davenport)
- 6095 COLOMBIA Voz del Centro; 0915-0931 SS, mx pgm (Lausevich 3/19)
- 6100 MOROCCO RTVM; 2058-2215 AA, chanting (Miller 3/13, Sherman 3/14)
- 6100 MALTA DW; 0350 EE, EL mx (Conover 3/16)
- 6102.5 UNID. 1413+ Thai N, lo vocals, flutes & strings, occasional W too. Only PCS comes to mind (Shaw 3/16) You won't have to worry about iding all those rare Asians when you get back to Kentucky ED. Hi.
- 6105 NEW ZEALAND RNZ; 1130-1143\* EE, nx, w //9520 (Zilmer 3/18)
- 6110 UNID. W tlling, vy weak at 1009. Maybe R. Charitas? Any help from SAM DXers (Field 3/23) (Whitacre 4/7)
- 6115 CONGO RTVC; 2302-2305\* caught last few words of s/off and NA
- 6120 INDIA AIR; 0257 Urdu, mx (T. Smith 3/20)
- 6120 ARGENTINA R. El Mundo; 2330 SS, mx, TC, ID (Hoffmann 3/18)
- 6120 FINLAND FBC; 0730 EE pgm, Superb level, MUST be the 100 kw transmitter. New pgm time (Cosier 3/14) (Guarducci)
- 6121 COLOMBIA R. Super de Cali; 0625-0738 SS, LA mx, ID, TC (Cosier 3/7)
- 6123 PERU R. La Cronica; 0636 SS, what sounded like a 50-year old wax record. Vy strong with 1000 watts (J. Davis 3/2)
- 6125 HONDURAS R. Suyapa; 2341 SS, bombastic ads, ID, mx (Miller 3/29)
- 6130 GHANA GBC; 2125-2255 EE, rel pgm, nx, Afr mx, NA at s/off. (Cohen, Moritz 3/21, Miller 3/30)
- 6130t ECUADOR HCJB; 1110-1115\* RR, W tlling, hymn by trio to 1115 when switch was pulled without s/off ID (Earhart 4/3)
- 6135 BRAZIL R. Gaucha; 0800-1015 PP, ballads, annmnts, tlks, ID's, and nx pgm (Cosier 3/23, Jones 3/30, Field 3/29, Padula 3/26)
- 6140 AUSTRALIA ABC Perth; 1106 EE, national nx (McNeil)
- 6145 UNID. 1026 mx pgm, reference to "santa Cruz" twice and telephone number in advertisement I think (Field 3/29) (Cosier, Davenport)
- 6150 COLOMBIA LV del Huila; 0300-0730 SS, ballads, ads, Ids, M anncr
- 6150 AUSTRALIA ABC Melbourne; 1015 EE at fair level (Sherman 3/15)
- 6155 HAITI R. Citadelle; 1120-1201 FF, ID with echo effect, church bells organ mx and into rel pgm, M tlling in FF (Moritz 3/12, Jones 3/16)
- 6155 JAPAN FEN; 0600 over other stations (Willis)
- 6155 AUSTRIA ORF; 2300-0035 GG, nx, cmntry, mx (Schwartz, Koenig 3/23)
- 6160 COLOMBIA Em. Nueva Granada; 2220 SS, orch mx, annmnts (Padula 3/6)
- 6165 NETH. ANTILLES RN Bonaire; 0200-0254 EE, nx, cmntry, mx (Sheehan, Carbone)
- 6165 SWITZERLAND SBC; 0700 EE, nx, tlks (Long 3/21)
- 6170 MOROCCO RTVM; 2200-2215 AA, chanting, ID (Schwartz 3/20, Sherman)
- 6170mf MALTA Voice of Hope; 0615-0630 FF, to Europe. VOH has made extensive rearrangements with transmitters, timings, and langs, using both Malta and RTE(Portugal) (Padula 3/27)
- 6174t OMAN OBC; 2120-2130\* AA, chants to s/off. Severe QRM from RM on f175 (Cosier 3/22) According to a recent letter from them they s/off at 2000 on this freq.KCC.
- 6175 ASCENSION I BBC; 0400-0430 EE, nx (Detlefsen 3/23)
- 6175 COSTA RICA Faro del Caribe; 1146 SS, ID, rel pgm (Jones 4/9)
- 6175 BRAZIL R. Guarani; 0905-0930 PP, mx pgm with M&W anncrs, frequent ID's, cmntry (Lausevich 3/7)
- 6180 ENGLAND VOA Wooferton; 0200 Armenian (Brown 3/11) prgming?
- 6185mf NORWAY R. Norway; 2015-2020 Norwegian, church svc, ex 6130 (Padula) 0030\* Norwegian, MOR mx, EE ID, IS, sked \*2300-0030\* (McLaughlin)
- 6185 ETHIOPIA R. Ethiopia; \*0359-0416+, flute IS, annmnts, NA, and what I swear was an EE TC, then W with nx and strange native organ type mx (Whitacre 3/18)
- 6186 LIBYA PBS; \*0359-0428 AA, Guitar IS, flute played, then march mx, annmnts at 0403 and into AA type mx (Young 3/18)
- 6190 VATICAN Vatican Radio; 2225 Italian, cl mx, prayer and evening concert (Zilmer 3/16)
- 6195 NIGERIA NBC Sokoto; 2200-2305\* Hausa/EE, chants, ID, EE nx at 2300, off with anthem (Zilmer 3/19, Mayer 3/21)
- 6195t MALAYSIA BBC Tebrau; 1245 EE, Big Ben and into WS (Jones 3/20)
- 6195 CHILE R. Nac. del Chile; 1025-1045 SS, mx with frequent mention of Chile (Lausevich 3/23) (Detlefsen 3/21)
- 6190 NETH. ANTILLES TWR; \*0345-0352 RR, EE ID, then RR rel service
- 6200 ALBANIA R. Tirana; 0151-0155\* EE cmntry (Sheehan 3/12)

Thanks to all who took the time to report this month. My DXing time has been almost nil as the coming of warm weather means lawns, boating, tennis, and a million other things that seem to steer me away from the radio.

73's *Kent*

NASWA QUESTIONNAIRE TYPO: When you receive your NASWA Questionnaire in a few days (see HQ page), you may notice a typo on the cover letter. On paragraph 2, line 5 of the cover letter, the word should be "responsive."

## SECTION "C"

# Log

EDITOR: TOM BAVARAS

## 6201-11700

# Report

DEADLINE: 12TH OF MONTH



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

- 6252t KOREA (NORTH) R. Pyongyang; 1225-1230\* w/Asian orchestral mx, short announcements by a woman in an excited language, and off. 3/18 (Whitacre).
- 6384 MONGOLIA R. Ulan Bator; 1220-1240+ w/tlk by a man & woman. More stable signal than last time heard (8/10). Poor signal w/weak modulation. //7300. (Whitacre 3/18).
- 6720mf VIETNAM Viet Bac; 1400 (ex 6860)//4032 (Willis-Australia).
- 7004 PIRATE; 1812-1852. Non stop rock mx, man announced phone number: (473-8281) for information on Federal help for people on strike. Abrupt off. (M. Smith 3/6) Super!
- 7050 EGYPT R. Cairo; 0342 AA w/tlk by a man (Conover 3/21).
- 7065 ALBANIA R. Tirana; 0005 EE Id w/nr (Rojewski 3/25). 2225 EE fair signal w/ARO QRM. //9480 (Sherman 3/14).
- 7095 CHINA Beijing (New name for Peking. I will use both names for awhile) Home Service \*1200 w/tlk in Chinese. (Yajko 3/17).
- 7105 EYELORUSSIAN SSR R. Moscow; 2342-0002 EE w/NA service. Fair Signal (Ball 3/14).
- 7105 MORACC Trans World Radio; \*0625-0659 EE Id, "Morning Radio Handshake", "Back to the Bible", etc. BBC QRM! (Muszynski 3/22, Cohen 3/30, Koziołkowski 3/22).
- 7120 CHAD Rdf Nat. Tehadienne; Vernaculars & local rhythms 0805. Heard via long path; different sked to WRTVH/76. (Padula-Australia 17/3).
- 7120 ALBANIA R. Tirana; \*0000 SS w/IS, Id by Man, nr, mx. Poor to Fair w/Bet (Brown 4/5)
- 7121v SOMALIA R. Hargeisa; Heard many times after 1500. AA mx but not AA announcements. //11646 (very strong). Possible Hargeisa ID at 1630, followed by drum type IS and sign-off at 1631\*. I think we are now convinced that this is Hargeisa. (Young)
- 7125 GUINEA Rdf Nationale; 0030 w/african pop mx to 0330. Good Signal (Behr 3/15). 0145 lang. w/african mx (Zilmer 3/20). 0810 w/african vocals to fade out or sign-off at 0827 via long path (Padula-Australia).
- 7132 TAIWAN BCC; 1500 CC. Jammed but still readable (Willis-Australia).
- 7140 CYPRUS BBC RELAY; 0200-0230 Persian w/EE Id at 0159½. Then Persian. Good (Brown 3/28)
- 7143v ALGERIA RTVA; 0000 SS "Voz de la Resistencia" to 0028\*. New Time. To Chile & also announced //15420 (Behr 3/15).
- 7145 LAOS Lao Nat. Radio; 1217-1238 tlk by man & woman in Lao. around 1230, but noise prohibited lang. Id later in broadcast (Morits 3/8). 1140-1220 tlk by man & woman in Lao. & VV (M. Smith 3/12).
- 7150 ASIATIC SSR R. Moscow (Khabarovsk)?; 2330-2335 EE w/NA service. Good Signal. This outlet QSLed as Khabarovsk but I'm still skeptical (Ball). 0430 EE tlk, mx (Woltman).
- 7150 GERMANY DW; 0510 EE w/african nr, Id into PF at 0515 (Rojewski 3/17).
- 7150 GREAT BRITAIN BBC; 0700-0730 EE w/Id's, nr "World Service" (Watson 3/26).
- 7150mf KOREA (SOUTH) R. Korea; (ex 7250) EE 0900, JJ 0930 (Padula-Aust. 3/27, Coiser 3/7).
- 7150mf PAKISTAN R. Pakistan; World Service to the United Kingdom in lang. (ex 7045). DW QRM (Padula-Australia 3/7).
- 7155 JORDAN R. Jordan; 0610 in AA. Good Level (Willis-Australia). 2020-2025 AA usually hidden by jammers for Radio Liberty. (Padula-Australia 3/24).
- 7160 USSR R. Moscow; 0220 EE w/ ID & usual propaganda //7205 (Hoffmann 3/21).
- 7165 ETHIOPIA EFLP; 0400 EE w/religious programs, Id, frequency and address. Fair signal with ARO QRM. (Sherman 3/15, Rojewski 3/14).
- 7165 RYUKYU ISLANDS VOA RELAY; \*1059 EE Id (Jones 3/23).
- 7170mf USSR R. Moscow; 0730\* EE, Sign-off. New Caledonia QRM (Padula-Australia 4/1).
- 7170 NEW CALEDONIA R. Noumea; 0620+ FF w/ pop mx, tlk, announcements, Id. Very Good. (Guarducci, Morits 3/23). R. 1029-1102\* FF, tlk, native mx, easy listening mx, Id, frequencies, a/off w/"La Marseillaise". Some HAM QRM. (Ravenhorst 4/3, Whitacre 3/28, Jones 3/23, Schwarz 3/13).
- 7170 GREECE VOA RELAY; 2200\* off w/EE ID (Koziołkowski 3/22).
- 7175mf SICILY RAI; Italian w/mx, nr, Id (Schwartz 3/21).
- 7190 USSR?; 2240 RR?, IS. Nothing reported lately on this freq. (Sherman 3/17).
- 7190 YEMEN DYBS; \*0300-0315 AA w/ID & AA mx. Fair signal. (Mayer 3/23).
- 7195 ALGERIA RTVA; AA // 9705, 9685 at 0600 (Willis-Australia).
- 7205 USSR R. Moscow; 0110 EE w/nr & cmtry on Detente (Sheehan 3/19).

- 7210 SWITZERLAND ICRC; \*0600-0615\* EE w/SBC IS followed by ID and talk on Arms conference, 0615 FF pgn. QRM from Hama & R. Moscow (Ravenhorst 3/24, Muszynski 3/22)
- 7215 AUSTRALIA (Carnarvon) R. Australia; 1147 lang. w/C&W mx, EE nx at 1200. Also noted at 1312+ in Indonesian w/EE language lessons. Fair signal w/Ham interference. (Miller 3/13, Whitacre 3/18).
- 7215 IVORY COAST R. Ivory Coast; \*0600-0730 w/FF announcements & African mx over RFE & a few other stations. 4940 was not // to this channel (Willis-Australia).
- 7220 AUSTRALIA (Shepparton) ABC; 1133-1140 EE. Playing mx of the "Top 40" pgn. Much noise on this freq. with a buzzing "bee" sound (Earhart 4/3). 1206 EE with the "World News" (Yajko 3/17).
- 7220 HUNGARY R. Budapest; 0159 EE to N. America. Good signal w/ARO QRM (Sherman 3/21). 0303 EE w/nx & cmtry (Sheehan 3/24). \*0400 EE w/IK pgn. Fair signal (Brown 3/51).
- 7230 MOROCCO VOA RELAY; 0450-0559\* EE w/Breakfast Show, nx, cmtry, Yankee Doodle, Id, s/off. Poor Signal. (Kozionkowski 3/22, Schwartz 3/12, Gesell 3/23).
- 7230m MOROCCO Trans World Radio; \*0813 w/ID into Turkish 0815-0830\*. Sundays only. Heard via long path (Padula-Australia 3/28).
- 7235 GERMANY (WEST) DW; 2015 SS w/sign-on to Europe. Poor w/heavy HAP QRM (Ball 3/18).
- 7250a USSR Mayak?; 1215 ER w/mx, ID. Excellent signal (Poppin 3/6).
- 7253z UNIDENTIFIED; 0455 w/European type FF pop mx, FF tlk by a man DJ. Off in middle of song at 0500. Don't think this was Guinea, as Conakry is usually speeches & chants. What is it? (J. Davis 3/25).
- 7255 BULGARIA R. Sofia; \*0230 Bulgarian w/IS, Id, tlk, nx (Conover 3/21).
- 7255m FRANCE RPT; \*0400 FF to 0500+ Excellent Signal (Willis-Australia).
- 7260 USSR R. Moscow; 1130 w/Korean pgn (Legge 4/6). 0700-0727 EE w/nx, cmtry, Id, "The Way we See it", etc. 0727 s/off (Poppin 3/19).
- 7265m GERMANY (WEST) Sudwestfunk; 0540-0600 GG w/pop mx, cmtry, sermon, polka mx, etc. (Schwartz 3/21).
- 7265 PAKISTAN R. Pakistan; World Service to Gulf Area w/"Call to Prayer" at 1332, new time ex 1215-1517 (new schedule is 1330-1630), into National lang. at 1335 (Padula).
- 7265 MOROCCO VOA RELAY; 0245\* EE w/Id, IS, s/off (Aston 3/27).
- 7270 SOUTH AFRICA RSA; 0330-0503+ EE w/nx, sports, cmtry, "Good Morning Africa", etc. (Schwartz, Poppin). 2145 EE w/tlk about Britain's political climate in the wake of Wilson's Resignation. Good signal w/ARO QRM (Ball 3/18).
- 7275 ITALY RAI; EE 0440 into another lang after IS. High QRM! (Cohen 3/22, Aston 3/22).
- 7275 NIGERIA VON; \*0600 EE w/nx, Id, cmtry. Good Signal. (Schwartz 3/12, Kozionkowski)
- 7275 TUNISIA RPT; 2355-0004\* AA singing by a man. tlk by man, frequency 3/25 into National Anthem (Moritz 3/28).
- 7285 MALAGASY REPUBLIC R. Nederland Relay; \*2300 Indonesian w/IS (Brown 3/11).
- 7285 GERMANY (WEST) DW; 0120 EE w/nx, cmtry, RPT QRM (Schwartz 3/21). 0623-0700 GG w/cmtry, music, chimes, Id, etc. HAM QRM//9735 (Poppin 3/19, Hoffmann 3/14, 3/21).
- 7290 AUSTRALIA R. Australia; 1145-1225 Mandarin w/Id, mx, tlk. (Yajko 3/20, Earhart 4/3).
- 7290 PAKISTAN R. Pakistan; 1755-1800 w/AA nx and announcements. New Time (ex 1830-2000) (Padula-Australia 3/27).
- 7290 UNIDENTIFIED; 0357-0359\* Continuous mx (easy listening), IS and off. No ID heard. (Conover 3/21).
- 7300 ALBANIA R. Tirana; 0243 EE w/cmtry; support of Angola liberation (Manley 3/22). 0355-0340 EE w/report on party congress, nx, mx, tlk on Marxism-Leninism, etc. to North America//6200. CW QRM. (Gesell 3/23, Brown 3/22).
- 7300 TADZHIK SSR R. Moscow; 2125-2147. Ending of (presumed) AA program, IS, ID into EE nx, mx, cmtry to Africa // 7400 (which was slightly better). Roger Legge has a QSL card confirming this site (Moritz 3/25, Legge).
- 7325 GREAT BRITAIN BBC; \*0345 AA w/EE ID "Big Ben" & AA chanting (Brown 3/22).
- 7335a NUMBER STATIONS; 0614 SS. Listed in March FRENEX as 7342. Does it move or am I off. Strong carrier, low audio (Sheehan 3/14).
- 7345 CZECHOSLOVAKIA R. Prague; 0105 EE with a fair level (Larson 3/21). 0300-0330+ EE w/ sign-on, ID, freq., nx, mx. HAM QRM but reception not too bad. (Kozionkowski 3/24, Gesell 3/23).
- 7355 USSR R. Vilnius; 0035-0059\* EE w/cmtry, mailbag. Fair-Good signal (Brown 3/14).
- 7370a USSR R. Peace & Progress; 0100 FP. Fair level (Larson 3/21).
- 7373 VIETNAM V. of Vietnam; 1231 VV w/mx & VV tlk (Yajko 3/20).
- 7385m CHINA R. Peking; \*1500 in unid. language. Sounded faintly like Bengali. Watch out!. This is not the Lao station (Willis-Australia).
- 7400 USSR R. Moscow; 2150-2159\* EE w/African service. Id's, mx, cmtry, etc. (Watson).
- 7412 ISREAL IBA; \*2230-2301\* EE to N. America w/Id's, nx, "Isreal Hit Parade", world nx by Alexander Diamond, greetings, schedules, etc. (Schwartz, Zilmer 3/20, Behr 3/14, Sherman 3/14, Padula, Miller). 2030-2055 new FF service (Padula). 0520 FF program into EE at 0530 w/nx about West Bank Incidents (Schwartz 3/19).
- 7440 ASIATIC SSR R. Moscow (Kenga?); 0100-0119 EE. N. American service w/nx and "Greetings from Moscow" and "What is Communism". Fair Signal (Ball 3/20).
- 7462.5 ISREAL IBA; 0400 Hebrew. Home Service w/tlk by man (Conover 3/21). 2215 Hebrew w/pop mx//9435. Home Service (Zilmer 3/20).
- 9009 ISREAL IBA; 0500-0530 EE Nx, Id's, etc (Watson 3/21, Zilmer 3/24). 2010 EE w/nx about the Middle East (Yajko 3/20). New FF service 2030-2055 14/3 (Padula-Australia)
- 9022 IRAN Voice of Iran; 2300-0400+ now all night service in Farsi. Fair to excellent signal. Heard everyday (Sherman).

- 9360 SPAIN RNE; 0306+ SS w/Id, cmtry, beautiful orchestral arrangement of "Valencia". Good signal (Guarducci, Conover 3/12, Poppin 3/28). 2330 SS w/nx, mx, Id. Very good signal//11775 (Hoffmann 3/21).
- 9410 GREAT BRITAIN BBC; 0308 EE nx (Conover 3/12). 2325 World Service, Id EE. Good Signal (Hoffmann 3/21).
- 9423v ALBANIA R. Tirana; 0200-0230 EE w/nx, propaganda, etc. (Koenig 3/23).
- 9435nf ISRAEL IBA; Home Service in Hebrew w/nx 2015-2030 (ex 9425) (Padula-Australia 3/15) 2210 Hebrew w/pop mx. Home Service (Zilmer 3/20). 0420 lang. w/tlk by a man. Sounded like exercises to piano mx (Conover 3/21).
- 9445 CANADA RCI; 2208 EE w/CBC Sports, mx // 5925 (Moonan 4/4).
- 9450 AUSTRALIA R. Australia Feeder; Now that Carnarvon relay active, R. Australia RCOSSB feeders reactivated, as this one in Indonesian//9600. 1233 News 3/20 (Hauser).
- 9465 PAKISTAN R. Pakistan; 2025 w/world service for United Kingdom. Urdu noted here. (Padula-Australia 3/31).
- 9475 EGYPT R. Cairo; 2030-2045 AA pgn//9850. AA mx, cmtry. QRM from R. Tirana. (Leffler 3/16). 0215-0330\* EE w/Id, nx, cmtry, letter-box pgn, etc. (Hoffmann 3/26, Sheehan 3/24, Detlefsen 3/25).
- 9480 ALBANIA R. Tirana; 1830-1845 EE w/nx & cmtry by woman (Tuchscherer 4/6). 2224 EE w/good signal strength tho severe utility QRM (Sherman 3/14).
- 9490 USSR R. Peace & Progress; 1305-1317 Mongolian w/man and occasionally a female talking. Silence 1314-1315 then tlk by a woman & singing. QRM got severe by 1317. (Earhart 3/29).
- 9502a PERU (Tentative) R. Tacna; 0158. Heard tlk by man, referring to "Tacna" a number of times. Not heard after 0200 (Field). Marlin, since you have also sent a report for R. America (see below), then I assume this is not the Peru station on 9505. I have not seen this station reported for awhile. (Editor) 4/3
- 9505 PERU R. America; 0200-0400+ Id, sports. Good Signal (Field 4/3). 1108+ SS Guitar mx, vocals, Id's, jingles, ads, etc. (Zilmer 3/15, Jones 3/11).
- 9505 MOROCCO VOA RELAY; 0605 EE nx, Id (Hoffmann 3/14).
- 9510 GERMANY (WEST) DW; 0310 w/brief IS (Sherman 3/30).
- 9510nf ETHIOPIA ETLF; \*0300 PF w/IS, ID, transmission to Malagasy Republic. 0330 Malagasy. (Conover 3/23, Nebron 3/26).
- 9510 VENEZUELA R. Barquisimeto International; 1202-1230 SS w/mx, cmtry, freq, Id. Good signal (Brown 3/13). 2200-2350+ SS Id, mx, ballads. Good Signal. (Earhart 4/6, Sherman 3/15, Hoffmann 3/28).
- 9515 TURKEY Voice of Turkey; 2200-2245 EE ID, nx, cmtry, DX Corner, Turkish mx, etc. (Koziokowski 3/21, Schwartz 3/20, Crater 3/14, Sherman 3/14, Gooden 3/23, Cohen 4/2). (Tentative) 0415-0425 AA type mx, lang. Latest sked says beamed to Europe. Good Signal (Brown 3/20).
- 9520 GREECE Voice of Greece; 0015 EE nx, cmtry. Id. Fair signal w/Het. (Hoffmann 3/21).
- 9520 NEW ZEALAND R. New Zealand; 1100\* EE w/"Songs of the Islands", anthem and off. Pgn to Pacific Islands//6105 (Jones 3/11).
- 9520 PAPUA NEW GUINEA Nat. Bc. Commission of PNG; Back here after using 9575 for a time. 0615 EE (Padula-Australia 4/3). 0710-0759 EE w/mx, Id. Excellent Signal (Poppin 3/13)
- 9520 SPAIN RNE; 0105 SS tlk & mx (Conover 3/12).
- 9520 USSR; 1220-1232 in unidentified lang. Heard IS that appears on p. 136 in WRTH for foreign service. High noise prevented further Id. Moscow? (Earhart 4/3).
- 9525 INDIA AIR; 1900-1946 EE w/nx, cmtry, Indian mx // 11620. Fair signal. (Mayer 3/14, Muszynski 3/18).
- 9525 SOUTH AFRICA RSA; 2232 EE w/World nx & sports (Woltman 3/12).
- 9525 CUBA R. Havana Cuba; \*0630-0756\* EE w/Id's, usual programming. Beamed to the Americas. Good Signal (Brown 3/7, Koziokowski 3/6).
- 9530 ROMANIA R. Bucharest; \*1500-1520 EE w/Listeners Letterbox, tlk, etc. (Ravenhorst).
- 9530nf USSR R. Moscow; 0700-0730\* w/EE to Western N. America (Padula-Australia 4/1).
- 9533 PERU R. Nacional Tacna; 0150 w/mx & many Id's (Field 4/3).
- 9535 SWEDEN R. Sweden; 2055 EE to Middle East, 2100 PF. SBC & USSR QRM, apparent last minute freq. change from 9605 (Padula-Australia 3/14).
- 9535 CANADA RCI; 0010 SS w/nx // 6040. Good signal (Hoffmann 3/16).
- 9540 UZBEK SSR R. Tashkent; 1159 EE w/IS, Id, nx (Miller 3/28).
- 9540 CZECHOSLOVAKIA R. Prague; 2231 Czech. w/Id & nx (Schwartz 3/20). \*0100-0155\* EE w/nx, cmtry on Chile, mx then off (Conover 3/22, Sheehan 3/24, Aston 3/24).
- 9545 GERMANY (WEST) DW; 0120 EE to Asia w/political cmtry (Sheehan 3/24). 0208+ EE Talk about production. Fair signal (Aston 3/23, Sherman 3/24).
- 9550 GRENADA R. Grenada; 1615-1801\* EE w/ads, variety of mx, BBC sports, "Good Afternoon from Grenada", etc. (Tuchscherer 3/15, Moritz 3/12).
- 9552 CHINA R. Peking; 2300-2356\* SS. Very strong//9030, 11375, 11650 (Behr). Cf March LR
- 9555 PHILIPPINES VOA RELAY; 1440 lang w/EE lessons. Identical pgn on Dixon 9545 but 5 seconds behind. Very good signal (Brown 3/23).
- 9560 AUSTRALIA (Carnarvon) R. Australia; 1240-1400 CC w/mx, tlk, EE ID. Good Signal. (Cress 3/13). \*2230-0030 in Indonesian. Good level 3/6. (Padula-Australia).
- 9560 ECUADOR HCJB; \*2200 SS to Europe (Padula-Australia 3/11). 0030+ FF Id, mx, etc. (Poppin, Hoffmann). 0230+ EE w/DX Party Line, nx. (Schwartz 3/9, Koziokowski 3/2).
- 9562 PERU R. Nacional; 0640+ SS w/Peruvian mx, Ballads, male announcer. VOA QRM. (Coiser, Earhart 4/4).
- 9565 CUBA RHC; 0310 SS ID "Voz de la Revolucion". Het from Chile on 9566 (Sherman 3/23).

- 9570 CHILE En. Diego Portales; 0200 SS tlks & full Id to 0303\*. Only 1 day 3/10 (Behr).  
 9570 NIGERIA RTV Kaduna; Hausa 2230-2318 // 6090. Afro mx, tlk (Zilmer 3/17, Earhart 3/29)  
 9570 QATAR QBS; 0617-0641 AA tlk & Mx (M. Smith 3/21). 1350 AA Good Signal (Willis-Aus).  
 9570 ROMANIA R. Bucharest; 0130 s/on, Id, freq. EE. Good Signal (Kozionkowski 3/23).  
 9570 SWITZERLAND SBC; 2330 GG w/nx. Good Signal (Hoffmann 3/24).  
 9575 ITALY RAI; 0104 EE w/nx, cmntry, Id. BBC QRM (Sheehan 3/24) 0300 Italian mx, Id. Fair signal (Hoffmann 3/20).  
 9575 INDIA AIR (Madras); 1345 Indian mx & supposedly Hindi tlk (Willis-Australia).  
 9580 GERMANY (WEST) DW; 0134 EE Good Signal (Kozionkowski 3/23).  
 9580 PHILIPPINES VOP; 1507 EE w/"Phil. Economic Digest", Id. Fair signal w/het (Sherman).  
 9580 AUSTRALIA R. Australia; 0700 EE w/nx (Wolman 3/24). 1145-1245\* EE w/Keith Glover Club Forum, Id. Good Signal (Hoffmann 3/15, Conover 3/21).  
 9585 FRANCE RFI; PF \*0458 w/IS, ID & FF mx (Conover 3/21).  
 9585 JAPAN R. Japan; 1515 EE into JJ. Fair signal with no QRM (Sherman 3/30).  
 9585.5 SOMALIA R. Mogadishu; AA Good signal till RSA QRM at 2055. 2101\* w/Id, and National Anthem which was cut off in the middle (Sherman 3/31).  
 9585 NEW ZEALAND RNZ; 0602-0700 EE w/mx, nx, Id, Book Review. Very Good Signal (Poppin).  
 9585 SOUTH AFRICA RSA; 2230-2320\* EE nx, Id, mx, cmntry. Good Signal (Poppin, Dettlesen).  
 9585 SYRIA SABS; \*0400. Rather weak. Thought another Arab was here before 0400 too. (Willis-Australia).  
 9590 CHILE R. Pres. Balmaceda; 0000 SS ID, nx, pop mx to 0150. Good. (Ball 3/6, Behr 3/13)  
 9590nf MALAYSIA BBC RELAY; EE \*0000-0100\* (Willis-Australia).  
 9590 INDIA AIR; \*2245 EE General Service to Asia (ex 9575). Well heard (Padula 3/19).  
 9590 SWAZILAND TWR; 0500 EE Id, religious mx. Poor. (Hoffmann 3/18, Nebron 3/17).  
 9590 NETHERLAND AFFILIATES; 0315 SS w/Id & SS easy listening mx (Conover 3/11). 0337 SS w/newscast announcing that Eddie Startz had died (Hauser 3/19). 0425 SS with good mx. Very Good signal (Hoffmann 3/18).  
 9595 Per March LR - "Guatemala" at 0007 must be wrong. No doubt is R. Cultura de Bahia  
 9600 ASCENSION ISLANDS BBC Relay; 0500 EE World Service, Id (Hoffmann 3/18). (Behr)  
 9600nf GERMANY (WEST) DW; 0150\* EE to N. America. Fair w/no QRM (Sherman 3/16).  
 9605 SWEDEN R. Sweden; 2305 EE to N. America. Fair w/no QRM // 6045 (Sherman 3/14).  
 9605nf CYPRUS BBC RELAY; EE \*0400-0500\*. Over DW EE too (Willis-Australia).  
 9605 VATICAN STATE Vatican R.; 0100 EE w/religious pgm, Id, PF 0115 (Hojewski 3/23).  
 9607 BOLIVIA R. Piraí; 0120 w/musical pgm. Weak Signal (Field 4/3).  
 9610 AUSTRALIA ABC (Perth); 1500 EE. To., Nx. Good Signal (Ball 3/22, Conover 3/14).  
 9615 USA KDEI; 0538 EE & SS w/Bilingual Religious pgm (Aston 3/20). 1456-1500\* SS w/instrumental mx, SS ID at s/off (Ball 3/22).  
 9615 MOROCCO RTV Morocco; 2223 AA w/fair signal tho some QRM (Sherman 3/17). 0115 AA w/mx (Conover 3/22).  
 9620nf SPAIN RNE; 2245-2300 SS // 9630, 11880 (Padula-Australia 3/6).  
 9620 YUGOSLAVIA R. Beograd; 2200-2215 EE nx. Severe CEC (9625) QRM (Mayer 4/4).  
 9625 CANADA HCI; 1700 EE w/Id & request for reports & 2130 EE w/Irish mx, Id (Hoffmann).  
 9625nf ECUADOR HCJB; 0805-0830\* w/EE to Europe "Back to Bible" pgm (ex 9760) (Padula 3/11)  
 9625nf USSR R. Moscow; 1045-1050 JJ ex 9770 (Padula-Australia 3/9).  
 9640 GERMANY (WEST) DW; 0228 IS, SS. Good, no QRM (Sherman 3/26).  
 9640 USA OAS; EE till 0000, then SS. Id // 11740. Fair (Brown 3/17).  
 9640 VENEZUELA R. Nacional; 0020-0047 SS Id, mx, ads, chimes (Poppin 3/29).  
 9645 COSTA RICA TIFP; 0300 EE "Hour of Decision". Strong (Noonan). 1243 SS Id, Latin American mx (Miller 3/20).  
 9645 VATICAN STATE Vatican R.; Surprised to find unscheduled EE liturgical nx capsule at tune in 2008. 2010 brief chimes, SS ID & "diario hablado de la noche"; 2013 onward into PF. 3/30. This block is scheduled for "Rosary", languages not specified. (Hauser). 0630 Religious pgm in various languages (Willis-Australia). Liturgy for Europe. Sundays only 0750 ex 9660. BBC QRM (9640) (Padula 3/7). Weekdays only, multi-lingual pgm w/nx 0700-0715 (ex 9625) (Padula-Australia 3/16).  
 9645nf PAKISTAN R. Pakistan; 0105 Bangla service w/nx (ex 9460). Sked: 0100-0230. (Padula). World Service to United Kingdom w/EE Quiz pgm 2140-2145. Excellent level (ex 6235) with Vatican QRM. Sked: 1915-2145 (Padula-Australia 3/7).  
 9648.3 CHILE R. Dimension; 0030-0300\* SS w/tlk, mx, Id (Behr, Field 3/15).  
 9652 UNIDENTIFIED; 0400 AA station. Also one on 9650 (Guess that one is Kuwait)(Willis).  
 9660 VENEZUELA R. Rumbos; 1300 SS Id's, tlk & mx (Brown 3/26). 2205 SS mx, jingles, ads (Noonan 4/4). 0002-0020 SS. Playing American pops of by gene days which they have jazzed up New Orleans style. Ballads, Id's, etc. (Earhart 4/5).  
 9670nf PHILIPPINES R. Veritas; 2230-2300\* Indonesian (ex 15310). Morning Service. Ruyadh co-channel QRM. (Padula-Australia 3/27).  
 9670 PORTUGAL AWR; 2100-2130 Hungarian? 2100 IS, ID in EE & FF. Good (Brown 3/13).  
 9670m GREECE BIRT; 0015 EE w/ report about Visit of Romanian president, etc. (Schwartz).  
 9675 BRAZIL R. Diario da Manhã; 0100 PP tlk (Zilmer 3/18).  
 9675 POLAND R. Warsaw; 0308 EE to NA, nx by M & W. Good strength but QRM (Sherman 3/21).  
 9675nf JAPAN R. Japan; CG to Asia 1320 (ex 6030). Well heard (Padula-Australia 3/7).  
 9682 COLOMBIA R. Nacional; 1230-12524 SS ID & tlk, religious tlks into concierto. Getting RHC (9680) ex 9633v. Has varied widely (Miller 3/27, Hauser 3/28). 2332 SS fair level w/9680 het (Sherman 3/6).  
 9680 AUSTRALIA SABC; 0600-0639 EE nx, mx, Id. No ads. Very Good reception (Poppin).  
 9685 BRAZIL R. Gazeta; 0015-0140 PF w/sport events. Fair. (Yajko 3/19, Mayer 4/5).

- 9689,5 CHILE R. Cooperativa; 2330 SS sports & Id to 2400 (Behr).
- 9690 PAKISTAN R. Pakistan; FF to Europe 1920, mx. Sked: 1900-2000 (Padula-Australia 3/8)
- 9690 ARGENTINA RAE; 0300-0351\* EE Id, nx, cmtry on powers of junta, announcements of appointments by the Military Gov. (Earhart, Cohen, Sheehan, Koenig, Detlefsen, Brown) Radio Nacional; 0433-0500 Id as "Radio Nacional" mx SS (Popin 3/27).
- 9690 ROMANIA R. Bucharest; 0200-0230 EE DX pgm (HAM news) (Koenig 3/22).
- 9695mf SWEDEN R. Sweden; \*0129 EE w/IS, Id. Poor level (Conover 3/29).
- 9700 GERMANY (WEST) DW; 2340 GG IS cmtry (Hoffmann 3/18). 0007-0019 GG "Heir ist Die Deutsche Welle, waltz mx (Poppin 3/25). 0140 GG disc of current treaty w/Poland
- 9700 AUSTRALIA RA (Carmarvon); VV 2245 sked:2130-2330 3/8 (Padula). (Schwartz 3/9)
- 9700 BULGARIA R. Sofia; 0000 EE nx, Id, editorial (Rojewski 3/26). 0410 EE to NA w/nx by a woman (Sherman 3/21).
- 9705 NIGER ORTN; 0620 FF annots over many stations. African mx & quicks announcements by a man. Note: Not scheduled this time (Willis-Australia).
- 9705 MEXICO R. Mexico; 0010-0015 SS nx (Padula 3/28). 0142 SS mx, tlk. Fair (Guarducci). 1224 EE IL w/requests for reports. Offering Barnar, maps, etc. P.O. Box 20-620 (Jones 3/20). 1440-1445 SS w/Id, Latin American mx. Good (Ball 3/22).
- 9705 INDIA AIR; 1132-1140\* EE nx (Zilmer 3/25).
- 9710 USSR R. Vilnius HS 0600 w/good Id "Kalba Vilnius" then Lithuanian nx (Coiser). of. March LR - This is not R. Frunze but R. Moscow FS 2000-2200 (Behr).
- 9710mf ITALY RAI; 2234 II Id, nx (Schwartz 3/20).
- 9710 SOUTH AFRICA RSA; 1425-1430 EE tlk, TC's, Ads, Pop mx. Fair. (Ball 3/22). Hoffmann)
- 9715 NETHERLAND ANTILLES R. Nederland; 0525+ EE Id, mx "World of Science"//6165 (Watson)
- 9715 PHILIPPINES FEBG; 1308-1315 JJ trumpet mx, JJ tkl, Noisy signal (Earhart 4/3).
- 9720mf AUSTRIA ORF; FF for Europe 2040 (ex 9715) Riyadh QRM (Padula-Australia).
- 9720 FINLAND R. Finland; 0302 IS, Id in Finnish to N.A. Fair, no QRM (Sherman 3/21).
- 9720 SRI LANKA SLBC; 1515 EE pop mx (Zilmer 3/26).
- 9725 SWITZERLAND SBC; 0154 EE nx, cmtry. QRM often severe (Sheehan 3/24).
- 9730mf BELGIUM RTB; 2115-2120 FF for Africa (ex 9725) w/nx (Padula 3/21). \*0015-0045\* EE to NA "Brussels Calling" (ex 9755) (Sherman, Zilmer 3/23, Earhart 3/25).
- 9730 UGANDA UBC; 2034-2100\* EE nx, mx, address. Strong. Poor modulation (Rojewski, Sherman)
- 9730 SAUDI ARABIA RSKSA; 2200-2300\* AA limbo mx as theme mx, long nx, NA (Sherman 3/16).
- 9730mf GERMANY (EAST) RBL; 1855 EE "Dateline Berlin" 1900 GG, Not listed in WRTH (Schwartz).
- 9740 MALAYSIA BEC RELAY; 1530 EE fair w/no QRM (Sherman 3/30).
- 9740 ARGENTINA R. Splendid; 2200 SS tlk, mx (Zilmer) 0315-0329\* SS Id, tlk (Lineback).
- 9745 SWEDEN R. Sweden; 1315 Swedish to S.E. Asia. Church service (ex 9605) (Padula).
- 9745mf BELGIUM RTB; 2020-2025 Dutch, pop mx for Africa (ex 9550) (Padula-Australia 3/15).
- 9745 IRAQ R. Baghdad; 1942-2026 EE Id, mx for Europe. RTB QRM (Kozionkowski, Padula).
- 9750 CHILE R. Mineria; 0000+ SS sports & Id. Very strong when other Chileans are weak & vice versa. This suggests another location. 9750 was listed as Antofagasta some years ago, does anyone know for sure? (Behr). 0048-0101 sports & nx (Moritz 3/9). 1056 SS w/many commercials, tlk, mx (Jones 3/16). 1130 SS Id, nx (Padula 3/28).
- 9750 ALGERIA RTA; AA nx 0710-0715 & 2000-2030 AA (ex 9765) (Padula-Australia 3/30).
- 9750 SWITZERLAND SBC; 0012-0017 FF tlk by M. Severe Albania QRM (Earhart 4/3).
- 9760 GREECE VOG; 2330 GG, 0015 EE nx, mx, 0030 FF. To N. America (Cohen 3/26, Zilmer 3/21) Ravenhorst 4/10, Earhart 4/3, Moritz 3/31).
- 9760 MOROCCO VOA RELAY; 2100 EE. Poor, no QRM (Sherman 3/17).
- 9765 ALGERIA RTA; \*0600-0830+ AA//9685. Superb Signal (Padula-Australia 3/27).
- 9770 CANADA RCI; 2100+ EE nx, etc.//11855 ex 9575 (Noonan, Padula, Sherman, Puchscherer).
- 9770 AUSTRIA ORF; 2315 GG Opera mx (Hoffmann 3/21). 0015 "Sports vom Wochenende" (Schwartz 3/22). \*0130 EE feature on tourism (Cohen 3/22). 0330-0355 EE nx, mailbag (Lausevich).
- 9770 AUSTRALIA R. Australia; 1224 EE Club Forum, Economic tlk (Zilmer 3/20, Yajko 3/17).
- 9770 HAITI AVEH; 1315-1325 EE. Female tilking to gile while "I'm Sorry now" in background (Earhart) 2200-2230 SS Id, mx (Hoffmann) 0020-0030 EE pen-pal listing (George)
- 9575 INDIA AIR; 1225 EE. Freq. & Time schedule. Time pils 1230, nx (Zilmer 3/17).
- 9805 EGYPT R. Cairo; 2200+ EE nx, mx, listener club (Conover, Puchscherer, Sherman).
- 9815 ISREAL IBA; 2045 FF new service (Padula). \*2230-2300\* EE nx, cmtry, gifted children mx, Hebrew lessons, DX pgm (Kozionkowski, Zilmer, Watson, Noonan).
- 9820 ISREAL IBA; 2045-2055 FF tlk, IS, off (Cress). \*2230-2255 EE w/DX pgm, nx, review of press, etc. (Sheehan 4/4, Cohen 3/21, Padula 3/19, Zilmer 3/29, Sherman 3/14).
- 9835 HUNGARY R. Budapest; 0205-0215 EE nx of European Affairs, Id (0213) (Cress 3/23).
- 9850 EGYPT R. Cairo; 2000 AA man & woman tlk. Good level (Conover 3/13).
- 9912 INDIA AIR; 2136-2210 EE woman tlk, Indian mx, man tlk 2200 (Lineback 3/24, Yajko).
- 9996 ASIATIC SSR RTA; Time station 0052//4996. Fair (McLaughlin 3/21).
- 10040 VIETNAM (North) VOV; 1136 Thai. Cmtry, Id (Kozionkowski) 1805 EE nx, Id (Rojewski).
- 10060 VIETNAM (North) VOV; 1219 Viet. Music & tlk (Yajko 3/20). (Rojewski)
- 11535 KOREA (North) R. Pyongyang; 2217-2245\* Korean (M. Smith). 2310 EE nx, Id, comments
- 11620 INDIA AIR; 2130 EE w/Questions for a listeners contest. Gave address (Gooden 3/27)
- 11645 ISREAL IBA; 2000 EE IS, Id, Freq. Nx (Rojewski 3/20). 2030-2055 FF tlk, musical Id, musical interlude (Earhart, Cress). 2000+ EE nx to N.America (Zilmer, Sherman).
- 11646 SOMALIA R. Hargeisa; 1548 peak//7121. Heavy flutter. Definite! (Young) Nice!!!
- 11672 PAKISTAN R. Pakistan; 0510+ w/Koran (ex 11885) (Willis & Padula-Australia). \*1330 w/Call to Preyer. Sked: 1330-1630. Into national lang (1335) (Padula 3/7).
- 11700 DOMINICAN REPUBLIC R. Clarin; SS Id mx, Id 1512-1530+ (Miller, Brown). 1703-1730 SS Id, mx, etc (Moritz). 2030-2255\* SS ads, Id. (Padula, Aston, Gaffin, Noonan, Zilmer).

Many Reports! Tight Squeeze! Thank you to all who reported! FANFANTIC!!! 73, *Tom*

# Log

SECTION D

MAY, 1976

Tom Overcamp

Seneca, SC

# Report



11701+ kHz

- 11705 NETHERLANDS RN-Lopik; \*2300-2330 DD, to SAM, listed for 11710, blocking R Sweden to SAM, a mistake? (Zilmer 3/24, Padula 3/21)
- 11705 SWEDEN RS: 2305-2328 EE, Panorama (Aston, Rojewski); 2355 lang, accordian music, fair (Sherman 3/30) - Swedish listed - ed
- 11705 USA WYFR-Scituate: 1317 EE, rel tlk & mx (Miller 3/21)
- 11705 JAPAN RJ: 2355 EE, to NA, amcd // 15300, F (Sherman 3/30); 2105 FF, to ME & NAf, ex 7250 (Padula-AUST 3/11)
- 11705 VATICAN CITY RV: 2230-2245 EE, rel nx to Philippines (Zilmer)
- 11710 ARGENTINA RAe: \*2300-2350\* EE, tlk justifying coup (6 reporters) 0021-0059 SS, ID, nx, mx (Poppin 3/15) AUST 3/7
- 11715 VATICAN CITY RV: 0745, Sunday only liturgy, ex 11790 (Padula)
- 11720 CANADA CEC Northern Ser: 1550, "Judy" show w/ SS lesson (Hauser 3/31) - Glenn, any idea why a SS lesson? - ed.; 1640-1700 EE (Hoffman); 2237-2300 Eskimo lang, country mx, ID (Poppin 3/24)
- 11725 CUBA HHC: 0348 EE, history of Cuba, //11930, Exc (Sherman 3/24)
- 11725 AUSTRALIA RA: 2145-2200 EE, nx, sports, wx, Fair (Beaudoin 3/14)
- 11730 NETHERLANDS RN-Lopik; 2220 EE, Monday Pgm (Rojewski 3/22); 0004-0019\* FF, mx, ID (Poppin 3/15) - listed for Bonaire in WRTH - ed.
- 11730 MALAGASY REP RN-Talata; 2108-2120\* EE, interview, US mx, nx (Earhart 3/13)
- 11735 MOROCCO RTW: 1605-1658 AA, group songs, annts, QRN (Moritz); 1515 AA, man chanting (Beaudoin 3/13) /3/20
- 11737.5 BRAZIL R Cl de Goiania; 0220-0300+ PP, IA mx, ID (Tuchacher)
- 11740 PHILIPPINES VOA: 0208 EE, nx (Manley 3/6) - VOA sked shows Colombo here and Philippines on 11760 - ed.
- 11750 JAPAN FEN: 0510 EE, no sign of BBC, //15260 (Willis-AUST)
- 11750NF PAKISTAN RP: 0005 EE, nx in WS to SEAs, ex 11885; 0045 Burmese Koran chants, ex 11672 (Padula-AUST)
- 11755 ARGENTINA R el Mundo; 0145 SS, Fair, QRN (Mayer 3/5)
- 11760 CUBA HHC: 0344 EE, nx, Exc (Sherman 3/24)
- 11780 USA WYFR-Scituate: 2100-2105 EE, ex 11805; 2205 SS, ex 11885 (Padula-AUST); 2000 GG, ID, frq, rel pgm (Aston 3/28)
- 11780 NEW ZEALAND RNZ: 0530-0844\* EE, nx, mx, //9585 (Hoffman, Woltman Poppin, Cohen)
- 11780 BRAZIL RNE: \*2059-2120 EE, class mx, Weak (Earhart); 2215-2220 PP, nx, WYFR not hrd today (Padula-AUST 3/26)
- 11785 BRAZIL R Guaiaba: 2335-0110 PP, nx, futbol (Sherman(T), Yajko); 1027-1050 PP, nx, often stronger than USSR co-channel (Padula-AU)
- 11785 MALTA DW: 1449-1450 EE, ID (Conover 3/13)
- 11785 NETH ANTILLES TWR: 0330\* SS, ID, rel pgm (Conover 3/21)/ - AUST)
- 11790 SOUTH AFRICA SABC: 0710-0715 EE, domestic svc, rare here (Padula)
- 11790 ROMANIA RB: 1745 EE, As & Eu Svc, ID, cmntry (Beaudoin 3/13)
- 11790 USA APRTS-Greenville, "Meet the Author" pgm, 2115 EE (Hauser)
- 11790T INDIA AIR: 0655-0710 EE, Indian songs, no ID (Hoffman 3/14)
- 11800 CANARY ISLAND RNE-Tenerife: 0200 SS, ID, TC, Good (Hoffman 3/20) - BBCMS 3/18 suggests this relay limited to 2100-2200, 2300-0000
- 11800 PHILIPPINES R Veritas: 1415 EE, ID (Willis-AUST)
- 11805 BELGIUM ORU: 1711-1740 PP, s/on at 1715, tlks, into lang at 1740 (Beaudoin 3/13)
- 11805NF ENGLAND BBC: 1045-1100 RR, Sat & Sunday only (Padula-AUST 3/20)
- 11805 USA APRTS-Delano: \*0400-0415 EE, CBS nx, cmntry (Detlefsen 3/24)
- 11805 BRAZIL R Globo: 0240-0300 PP, ID, nx (Earhart, Conover); 1925-1940 PP (Lauevich); 2331 PP (Sherman); 1030 PP (Padula-AUST)

- 11805 USA-WYFR-Scituate; 2306-2330 SS, Strauss waltz mx, EE at end (Poppin 3/15)
- 11810NF VATICAN CITY RV; 1510 EE, Good (Willis-AUST)
- 11810 SEYCHELLES FEBA; 1730 EE, ID, Freq, mx (Rojewski 3/30)
- 11815NF USA WYFR-Scituate; 2200 EE, to Europe, ex 11805 (Padula-AUST); 2120-2140 SS, ID (Hauser 3/27, Padula-AUST) / (Poppin)
- 11815 BRAZIL R Brasil Central; 0037-0129 PP, old US pop mx w/ EE title
- 11820 ECUADOR HCJB; 1030-1055 Scan lang, sked 11820 (Padula-AUST)
- 11820 ENGLAND BBC; 2341-2359 PP, mx, ID, EE lesson; 0142-0214\* SS, EE songs, ID (Poppin) - Ascension Island listed per WRTH - ed.
- 11825 SOCIETY ISLANDS FR 3-Papeete; 0317-0645 Tahitian, Island mx, FF ID, into FF at 0630 (Brown, Earhart, Hoffman, Poppin, Sherman) - new name for Tahiti. I hate to see it go - ed.
- 11830 VATICAN CITY RV; 1700 EE, cmntry about mass on TV (Beaudoin 3/13)
- 11830 USA VOA; 2140-2200 KK, ID, nx, cmntry (Poppin)- Philippines listed in VOA sked. Dixon 2330-0100\* - ed.
- 11835 USSR RM; 0700-0730\* EE, WCNA Svc. (Padula-AUST 4/1)
- 11835 HAITI 4VEH; 1310-1325 EE, rel pgm (Earhart 4/5); 0000-0030+ EE, ID, rel pgm; \*1000 SS, ID, unusual evening recptn (Padula - AUST)
- 11835 URUGUAY R El Espectador; 0138 SS, sports (Conover 3/7) - good reception noted after Dixon s/off 0100\* - ed.
- 11835 ALGERIA RTWA; 0700 AA, //6145, 11810, 9685 (Willis-AUST)
- 11845 FRANCE RFI; 1705-20 EE, "Paris Calling Africa" (Schwartz)
- 11845 NEW ZEALAND RNZ; 0245-0507 EE, nx, wx, mx, tlk (8 reporters)
- 11850 W GERMANY DW; 1620-1715 Af lang, into EE at 1715 (Beaudoin 3/15)
- 11850 NORWAY RN; 2000-2030 EE, "Norway This Week," (Mayer 3/21); 2008 NN, rel svc QRM unid cochannel (Padula-AUST 3/21) - May-Sep Sked shows 0700-0830 Pac, 1900-2030 Pac, 2100-2230 FE Pac, see 11860
- 11855NF INDONESIA RRI-Jayapura; 0900-0945+, 2200-2300 Indo, vocals, nx freq varies (Padula-AUST) - not listed in WRTH - ed.
- 11855 CANADA RCI; 1800 EE, 1915-1945 FF w/ DX pgm, \*2100 EE, letters from listeners, (Hoffman, Conover, Overcamp)
- 11855 USA WYFR-Scituate; 0253 EE, slow Bible reading for EE lesson (Sherman)
- 11860 NORWAY RN; 1815 EE, under Korea (Ravenhorst 4/11); 2200 lan after EE ID (Brown 3/19) - sked May-Sep 1700-1830 ME, 2300-0030 N & CAM, 0100-0230, 0300-0430 N&CAM. Also on 11870 0300-0430, 0500-0630 N&CAM (WCNA beam) EE last 1/2 hour Sun or Mon GMT mornings -
- 11860NF S KORBA KES; 1809-1830 EE, nx, "Sunday Magazine", unlisted in new "temporary" sked (Ravenhorst 4/11); 0910 EE, nx, cmntry, // usual 11850, QRM Taiwan (Padula-AUST 3/11); 0456-0430 EE, nx, cmntry, mx (Poppin - oops! he reported as 11850 & out-of-order)
- 11860T TAIWAN VOPC-BED45; 2202-2230 AS lang, mx, nx at 2220, Poor (Brown 3/14) - possibly extended svc of Korea? - ed.
- 11860 ASCENSION ISLAND BBC; 0730 EE, WS nx, ID (Hoffman 3/14)
- 11860 SWEDEN RS; 2005-2010 SS, nx for Eur, ex 9580, (Padula-AUST 3/26)
- 11860NF AUSTRIA ORF; 2035 GG to Af, ex 11855, Sweden, VOPC QRM (Padula)
- 11860 USSR RM; 1601 EE, to S&SEAs, Fair (Sherman 3/30); 1700 GG, IS, ID, possibly to Austria (Overcamp 4/25); 1545 RS P&P EE (Larson 3/21); R Kiev; 0308-0328\* EE (Guarducci) - this freq is busy. I hope RN skeds are useful. Look for changes-Everyone can't be here!
- 11865 CUBA RHC; 2100-2110 EE (Padula 3/11); 1940 FF, IS, ID (Hoffman)
- 11865 W GERMANY DW; \*1327-1335 GG, to NAM, //15245, 17800 (Earhart 4/3)
- 11870 AUSTRALIA BA; 2245-2315 EE, nx, EL mx (Hynes 3/19, Zilmer 3/22)
- 11865 BRAZIL R Cl Pernambuco; 0345-0415 PP, pop mx, ads (Earhart 3/24)
- 11870NF NORWAY RN; 0750-0800+ NN, to AUST (Padula-AUST)- new sked gives 11850 as shown above - ed.
- 11880 SPAIN RNE; 0100, 0200 EE, to NA, nx, Good (Manlay, Rojewski, Sherman); 2156-2215+, 2345 SS, ID, nx, mx (Tuchschere, Hoffman)
- 11885NF PAKISTAN RP; \*0100 Bangladesh Svc, ex 7080, sked to 0230 (Padula)
- 11885T BRAZIL R Maua; 1030-1100 PP, mx, annts (Padula-AUST 3/20)
- 11890 USSR RS P&P; 1030-1100 EE, blocking Oman (Padula-AUST 3/9)
- 11890 PHILIPPINES FEBC; 1100-1130 EE, replaces 11855 which carries Asian lang pgm at this time (Padula-AUST 2/25)
- 11890 ECUADOR HCJB; 2205 JJ to S Am (Padula) - yes many Japanese immigrants in Brazil. R Nac, Sao Paulo has daily JJ pgm - ed.
- 11895 NORWAY RN; 2000 EE, nx, cmntry (Rojewski) not in May-Sep sked-ed
- 11900 MALAYSIA VOM; \*0455 EE, IS, nx at 0500, earlier than 0625 listed in WRTH (Cosier-AUST)
- 11900 USA UN-Greenville; 2335 EE, Security Council debate (Rojewski)
- 11900 SOUTH AFRICA RSA; 2245-2255, 2310-2320 EE, //5980, heavy QRM from UN Radio in later period (Earhart 3/31) 0600 FF, "Bonjour 1'Afrique," (Gesell); 2230-2318 EE, nx, DX pgm (Sheehan, Hoffman, Poppin)
- 11905 W GERMANY DW; 1940 EE, cmntry in Af svc (Conover 3/20); 1958\* EE, QRM from RSA (Sherman 3/13)

- 11910 ALGERIA RTVA; 1942 EE, tlk about local matters, PF & AA songs  
Fair (Miller 3/14)
- 11910 PHILIPPINES R Veritas; 0100-0200+ EE, nx at 0130, may have moved  
to 9870 since (Padula-AUST 3/8)
- 11915 ECUADOR HCJB; 0047-0145 EE, rel pgm, (Hoffman, Poppin)
- 11920NF EGYPT RC; 2345-2355 PP, pgm to Brazil, ex 11715 (Padula-AUST)
- 11920 IVORY COAST R Abidjan; 1935-2000 EE, Af mx, into PF at 2001  
(Lausevich 3/12); 2215-0030 PF, pop & Af mx, soccer (Earhart,  
Poppin, Schwartz)
- 11925 NETH ANTILLES TWR; \*0027-0045+ EE, DX special, rel pgm (Cohen,  
Conover, Poppin)
- 11925 BRAZIL E Bandeirantes; 0001-0027, 0140-0148 PP, ID, mx, blocked  
by TWE s/on, sports (Poppin, Moritz)
- 11930 FRANCE RFI; 2025 PF, to N&W Af (Padula-AUST 3/23)
- 11935 SOUTH AFRICA SABC-Springbok; 1404 EE, American MOR mx, ad for  
Paul Revere Tobacco (Miller 3/14) /la-AUST)
- 11935 INDIA AIR-Delhi; 1130-1140, F w/ nx in lang, EE nx at 1135 (Padu)
- 11940 KUWAIT RK; 1710-1905 EE, nx, cntry, pop mx (Sherman, Schwartz)
- 11940 BELGIUM ORU; 2045 DD, to Af, annts, pop mx (Padula-AUST)
- 11945 CHINA RP; 0019-0055<sup>2</sup>, 0133-0155<sup>2</sup> EE, nx, cntry (Poppin, Sheehan)
- 11945 SWEDEN BS; 2040 EE, to Af; 2140 SS, to Eur (Padula-AUST 3/19)
- 11950NF SWITZERLAND SBC; 0700-0730, ex 11840 (Padula, Willis(11949)-AUST)
- 11960 FRANCE RFI; 0500-0600 PF, to E Af, (Padula-AUST 3/27)
- 11960 NEW ZEALAND BWS; 2035 EE, to Pac, QRM from IBA at 2100 (Padula)
- 11960 ISRAEL IBA; 2105 RR, ex 5900 (Padula-AUST); 0345 RR, ID, cntry.  
severe QRM (Jamming?) at 0348 (Poppin)
- 11965 FRANCE RFI; 2020 PF, to E Af, new for this time (Padula-AUST)
- 11965 PHILIPPINES VOA; 1202-1208, 1245 CC, M in tlk, EE to CC lesson  
(Earhart 3/28, Beaudoin 3/14)
- 11965 AUSTRALIA BA; 1700 EE, ID, nx (Rojewski 3/20)
- 12000 AUSTRALIA VNG; 0344, 0608-0616, ID, time pips (Mayer, Watson)
- 12000 USSR RM; 0100 EE, IS, ID, Pair (Sherman 3/26); 2040 EE, to Af  
(Padula-AUST 3/24)
- 12005 EGYPT RC; 2215-2230 AA, drama (Earhart 3/22)
- 12020 USSR RM; 1145-1200, chorus w/ orchestra, ID, TC (Earhart 3/28)
- 12025 ISRAEL IBA; 2205-2300 PF to 2230, into EE nx, // 7412, 9820,  
11645 (Earhart Padula-AUST, Sherman, Zilmer)
- 12040 ENGLAND BBC; \*2200 EE, Sunday only pgm to Falkland Is (Cohen 3/21)
- 12040 USSR RM; 2035 EE, to Af (Padula-AUST)
- 12050 USSR RM; 2307 EE, nx, Poor (Sherman)
- 12055 USSR RM; Cf. March LR-D. possibly not Tbilisi. QSL says Armavir  
for 1800-2000 (Behr)
- 12077A ISRAEL IBA; 1940-2010, 2200 RR, tlk, pop mx (Gaffin, Zilmer);  
0715-0800+ RR, HS relay, long route reception (Padula-AUST)
- 12165 ENGLAND BBC; 1510 EE (Willis-AUST)
- 15000 ARGENTINA LOL; 2305-2330 SS, voice ID by W every 5 min, morse  
also, under WWV (Moritz 3/21)
- 15004 USSR RM; 0056, time standard station, Fair (McLaughlin 3/21)-  
do they have voice annts, time pips, morse ? - ed.
- 15007 N VIETNAM; \*1500 VV, R Hanoi, tlk (Zilmer 3/24)
- 15010A N VIETNAM RH; 1843-1902, Viet songs, M tlk but cldn't identify  
lang, possible W in PF at 1920, unlisted in recent sked (Moritz)
- 15070 ENGLAND BBC; 1335 EE, pop mx, jazz (Conover 3/13)
- 15084 IRAN NIET; 1405-1625 Farsi, ID, mx, tlk (Earhart, Schwartz)
- 15095 FRANCE RFI; 1730 EE, "Paris Calling Africa", (Koziomkowski)
- 15100 ISRAEL IBA; 1200-1220, 2200 EE, nx, interviews w/ people who  
witnessed riots (Earhart, Zilmer); 0345-0412 RR, ex7125, // and  
better on 1960, jammed (Padula-AUST 3/27)
- 15105 JAPAN RJ; \*2158-2220 EE, IS, ID, Gen Svc, nx, cntry, into JJ  
at 2215 (Brown, Poppin)
- 15105 GRENADA RG; 2005-2200<sup>2</sup> pop & soul mx, live cricket match, abrupt  
s/off's (Brown, Conover, Filka, Miller, Ravenhorst, Zilmer)
- 15110 FINLAND RF; \*1157-1207 Fin, IS, ID, mx (Earhart 4/3)
- 15115 ECUADOR HCJB; 1600 EE (Sherman); 1700 SS, ID, mx (Poppin)
- 15120 VATICAN CITY RV; \*1700-1715 EE, rel nx & tlk to Af, IS at 1715  
(Cohen 3/21, Miller 3/14)
- 15125 PORTUGAL RP; 1447-1515 PP, mx, gong ID at 1500, mx, futebol  
(Brown 3/13, Gaffin 4/3)
- 15130NF BELGIUM ORU; 0630-0655 DD, ex 15125, nx, pops, to Af (Padula-AU)
- 15135 W GERMANY DW; 1740 EE, Af nx (Yajko 3/20)
- 15135 IRAN NIET; 0300-0305 Farsi, noted through 1100 f/out, //15084 &  
17735 (Padula-AUST 3/7)
- 15140 SWITZERLAND SBC; 1315-1325 EE, nx, DX nx, jazz (Koenig, Miller)
- 15140 USSR RM-Riazan; 1200-1630+, S As lang except EE RS P&P 1230-  
1300, 1530-1600, RM EE 1600-1630 (Legge, Sherman, Overcamp)

- 15145 BRAZIL R Journal Comercio; 2045-2255\* PP, rapid blk, ID, nx at 2200 (Yajko, Poppin, Noonan, McNeil)
- 15145 PORTUGAL or GERMANY HFE; 1739-1803+ Polish, US pop mx, ID "R. Wlra Europa," at 1800 into nx by M (Overcamp 4/10)
- 15150 SRI LANKA VOA-Colombo, 1559-1615+ EE, ID, QTH, nx (Tuschcherer)
- 15150A W GERMANY DW; \*1900-2000\* EE, Af Svc, nx (Larson, Sheehan, Sherman)
- 15150 CHILE VOC; 1150-1215, 2254-2310, 0100-0120 EE, nx, cmntry, requests reports (Beaudoin, Earhart, Poppin); 0040, 0128, 0250, 2322 SS, ID, IS, nx, cmntry (Hoffman, Schwartz)
- 15155 SOUTH AFRICA BSA; 1806 GG, sked 1756-1850 to Eur (Overcamp 4/10)
- 15160 MEXICO XEW; 1820-1925 SS, nx, cmntry, clas mx (Hoffman, Lausewich)
- 15160 ECUADOR HCJB; 1600 EE (Sherman); 1910-1940+ SS, nx, mx (Brown)
- 15160 AUSTRALIA RA-Lyndhurst; 0600 EE pac Is Svc, nx (Cohen 3/26)
- 15160 SEYCHELLES FEBA; 0820 EE, "Radio Today," rel pgm (Padula-AUST)
- 15165 DENMARK RD; 2000 EE ID, into Danish to S Am (Sherman 3/25)
- 15165 VATICAN CITY RV; 1505 EE ID for India & SEA, into lang (Larson)
- 15170 NORWAY RN; 1310-1325, 1450-1630 NN except on Sunday 1600-1630 (Earhart, Legge, Padula-AUST) - thanks for help! New May-Sep sked shows 15175 exclusively. Before they used both 15170 & 15175 at different times - ed.
- 15175 NORWAY RN; 1105 NN to FE, ex 11860 for this time (Padula-AUST)
- 15185 SRI LANKA VOA-Colombo; 0059-0130+ EE, IS, ID for Colombo, nx, cmntry, into Hindi at 0130 (Overcamp 4/19) /ler
- 15185 MALAGASY REP RN-Talata; 1720-1810 DD, Dutch pop mx (Hoffman, Mill)
- 15185 USA WINB-Red Lion; 2220 EE, ex 11775 (Padula-AUST 3/21)
- 15190 CONGO RTVC; 2199-2130+ FF w/ EE nx frm 2215-2230v on some days (Cohen, Mayer, J. Davis, Ravenhorst, Schwartz); 1630 FF (Schwartz)
- 15190 BRAZIL R Inconfidencia; 2245-0022+ PP, futebol (Mayer, Miller)
- 15190 AUSTRALIA BA-Carnarvon; 0140 EE, mx, new tx site (Young 3/7)
- 15190 NETH ANTILLES RN-Bonaire; \*1642-1655 DD&EE, relay to other Stations (Ravenhorst) - listed in WRTH to Af? - ed.
- 15210 USSR R Yerevan; 0315-0330+ EE, cmntry, Arm mx, contest, into Arm at 0330 (Poppin 3/23)
- 15220 MALAGASY REP RN-Talata; 2045-2100 FF, tlks, mx ID (Trautschold)
- 15210 GREECE EIPT; 1500-1550 Greek except EE 1515-1530 (Legge 3/23)
- 15220 HOLLAND RN-Lepik; 2215-2240 DD, mx, comedy. Good (Hoffman 3/6)
- 15230 CUBA RHC; 2040 SS, tlks, ID (Overcamp) /rer
- 15240 USSR RN; 1520-1535 RR, light mx, tlks, list Nikolaevsk (Tushasche)
- 15240 SWEDEN RS; 1330 FF to S As, QRM from RBI AA svc, 0900 RR to N As, nx, no QRM (Padula 3/20)
- 15245 ZAIRE LV du Z; 2000-2010 FF, no ID, hrd "Kinshasa," (Trautschold)
- 15245 W GERMANY DW; 0730 Bengali nx, ex 11945 (Padula-AUST 3/7)
- 15250 PHILIPPINES VOA; \*0800 RR for FE (Padula-AUST 3/7)
- 15250 ROMANIA RB; 1315 EE, cmntry, ID, sports news (Miller, Yajko)
- 15260 JAPAN FEN; 0630 EE, pops, //11750, 6155 (Willis-AUST)
- 15262 CHINA RP; 0400-0500 RR, drifting (Willis-AUST)
- 15265 FRANCE RFI; \*1200-1240+ FF, tlks, //15155, 15300; 1300-1315 FF not //15155, 15300, mx. Possibly change pgm at 1300 (Earhart); 1514 FF, mx, ylk, Good (Conover)
- 15170 JAPAN RJ; \*2345-0045\* EE to NA, ex 11705, //15300 (Ball, Cohen, Earhart, Padula-AUST)
- 15280 NEW ZEALAND RNZ; 0115 EE, pop mx, Poor (Schwartz 3/21)
- 15280 USA KGET; 0015-0055+ PP, mx (Hoffman)- WRTH doesn't list any PP possibly SS - ed; 0030 SS, nx (Conover 3/12)
- 15285 E GERMANY RFI; 1445\* AA (Willis-AUST)
- 15285 ISRAEL IBA; 1600 RR, ID, jamming (Schwartz 3/21)
- 15300 JAPAN RJ; \*2347-2355 EE, ID in EE&JJ, sked, nx (Sheehan, Schwartz)
- 15305 AUSTRIA ORF; 1605 GG, nx, ID, Fair (Schwartz 3/21)
- 15310 MALAYSIA BBC-Tebrau; 1545-1615\* EE, cmntry, nx at 1600 (Cress)
- 15312A ECUADOR HCJB; 1717-1730 lang, EE ID at 1730\* (Brown) - BBCMS 3718 lists RR for 1630-1730 on 15310 & 17755 - ed.
- 15315 LIBERIA VOA-Monrovia; 2210-2230\* FF, nx, ID, IS (Hoffman 3/31)
- 15315 FRANCE RFI; \*1515 FF, IS, ID, EE ID, nx in FF, to Af (Conover)/ n)
- 15320 AUSTRALIA RA; 0100-0300 EE, nx, mx, ID, Exc (Poppin, Cohen, Brown)
- 15325 UGANDA UBC; 1800-1830+ EE, pop mx, nx, cmntry, into FF at 1830 (Cress, Pilka, Koziomkowski, Miller, Zilmer)
- 15330 USA APTS; 2355 EE, NBC nx & sports (Hoffman) - both Delano & Bethany listed for APTS at this time - ed.
- 15330A CHINA RP; 0445 RR, Good (Willis-AUST reported 15333); 0300 RR, "Govorit Peking," EIR, severe QRM at 0302 (Poppin, rep 15320)
- 15335 COLOMBIA R Nac; 0100 SS, ID, //9685 (Field), 0304 SS (Padula-AU)
- 15345 NORWAY RN; 2323 NN, to FE, sports (Padula-AUST 3/7)
- 15345 AUSTRIA ORF; 1905 GG, nx, mx, ID, pgm for S. Af (Schwartz 3/21)

- 15350 **ZAIRE** LV du Z; 2100-2259 PF, mx, nx, ID, tlks, into lang at 2200 (Beaudoin, Poppin); 2020-2030 PF, Af mx (Padula-AUST 3/26)
- 15350 **LUXEMBOURG** RL; 1915 PF, ID, pop mx (Schwartz 3/21)
- 15355 **USA** KGEI-Belmont; 0132 GG, rel pgm, Poor (Schwartz)
- 15355 **NETH ANTILLES** TWR-Bonaire; \*2225-2330\* PP, IS, ID in PP, nx, into rel pgm (Conover, Moonan, Ravenhorst)
- 15360 **USSR** RM; 1200-1630\* S/SEAS langs except 1330 RS P&P in PF, 1530 RS P&P in EE, 1600 RM in EE (Legge 3/23) /mer
- 15360 **FRANCE** RFI; 1704-1740 EE, "Paris Calling Africa," (Conover, Zilmer)
- 15370 **ALGERIA** RTVA; 1435 EE, tuned into weekly Wed EE lesson which ended at 1445, then possibly into AA instead of FF as sked, jamming QRM for R Liberty overpowered it at 1457 (Hauser 3/31)
- 15375 **ECUADOR** HCJB; 2310 GG, rel mx, ID, also 2200-2230 JJ (Hoffman)
- 15380NF **NEW ZEALAND** RNZ; 0315-0446 EE, drama, mx (Mayer, Willis-AUST)
- 15385 **MEXICO** RM-XERMK; 1520 SS, soccer; 2000-0030 SS, occasional EE ID, Mex mx, Amer mx (Cress, Hoffman, Poppin, Schwartz, Wingard, Woltman) /Ravenhorst, Schwartz
- 15385 **ITALY** RAI; 1530-1545, 1710, \*1830-1905\* II, sports, nx (Gaffin)
- 15395 **USA** VOA-Greenville; 1800 Greek, unid AA station s/off at 1759? (Brown 3/25)
- 15395 **UZBEK SSR** RS P&P-Tashkent; 1330 PF, //15360 (Legge 3/23)
- 15400 **VENEZUELA** R Nac; 2205-2255\* EE, IA mx, US style annor (Ravenhorst, Zilmer, Zilmer 3/25)
- 15400NF **ISRAEL** IBA; \*1400 YY, IS, ID, Poor w/ jamming (Conover 3/20)
- 15410 **RWANDA**; 2210-0016 GG, nx, ID, //11795 (Hoffman 3/18, 21, Poppin) - DW-Kigali -
- 15415 **AUSTRALIA** RA-Carnarvon; 0520 EE, mx pgm, site ID (Cosier-AUST)
- 15420 **JAPAN** RJ; 0120 JJ, cmntry, Poor (Schwartz 3/21)
- 15425 **FRANCE** RFI; 1745 EE, "Paris Calling Africa," (Miller 3/21)
- 15425 **SRI LANKA** SLBC; 1530-1552 EE, ID, TC, mx requests, Fair (Mayer)
- 15430 **SWITZERLAND** SBC; 1325 EE, cmntry on "St Nick," //15140 (Beaudoin)
- 15435 **TANZANIA** RT; 2000-2015\* EE & Af lang, ID in EE for Extnl Svc, ID for pgm "Voice of ?," by the Pan Af Congress of Zambia (?), into lang, EE ID at s/off (Overcamp 3/27)
- 15440NF **SPAIN** RNE; \*0900 SS, to AUST & Philippines, ex 15370 (Padula-AU)
- 15445 **ENGLAND** BBC; 1445, ID in EE, then into RR (Conover 3/20)
- 15445 **BRAZIL** RNB; 0038-0138 PP, US & IA mx, EE titles, (Poppin 3/18)
- 15445 **USSR** R Atlantika; 1250-1310 RR, orchestral mx, W&M tk, time pips at 1300, no ID (Earhart 3/30) - hrd Rodina ID at 1300 4/17 but believe that both Atlantika and Rodina IDs are used - ed.; 0000 RM in EE w/ nx, //15180 (Zilmer 3/23)
- 15460 **USSR** RM; 1400 IS into lang with tlk (Zilmer 3/21)
- 15465NF **ISRAEL** IBA; \*1200 EE; \*0500 EE, both to Aust (Padula-AUST)
- 15475 **EGYPT** RC; 1745 AA, chanting mx, tlk (Zilmer 3/21)
- 15485A **ISRAEL** IBA; 1205-1215 EE, to NA (Padula-AUST rep 15485, Zilmer rep 15487)
- 15415 **BRAZIL** R Cl Ribeirao; 2243-2255 PP, M w/ cmntry, good ID (Mayer) - sorry for out-of-order - ed.
- 15505 **USSR** RM; S As langs except RS P&P at 1330 EE (Legge, Zilmer)
- 15512A **ISRAEL** IBA; 1200 HR, HS relay, tlk, pop mx (Padula-AUST, Zilmer)
- 15520 **PAKISTAN** RP; 1115 Bangla svç (Padula-AUST 3/31)
- 15520 **CIANG** V of Malayan Rev; 0710\*, Cantonese (Willis-AUST)
- 17685 **ISRAEL** IBA; 1200-1230 EE, nx, mx, ads, interview (Zilmer 3/4)
- 17705 **CUBA** RHC; 1405-1430+ SS, nx, mx pgm, Poor (Brown 3/13)
- 17715T **ENGLAND** BBC; 1530-1545 EE, "let's Speak EE," for AA listeners, probably BBC (Hauser 3/31)
- 17725T **PORTUGAL** HFE; 1845-1900\* Polish, after Cairo s/off, M&W w/ nx, mx, (Trautschold 3/27) - am assuming your PP is Pol, not Port.
- 17725 **EGYPT** RC; 1830-1845\* Amharic, mx, nx, ID, to Af (Trautschold)
- 17730 **USA** VOA-Greenville; 2345\* SS, EE ID at s/off (Sherman 3/30)
- 17750 **PAKISTAN** RP; 0540 Urdu in WS; 0925-0930 Hindi w/ jammin for R Liberty; 1000 Tamil (Padula-AUST)
- 17750 **USA** VOA-Delano; 2230 VV, nx (Manley 3/6); 2343 EE/As lang, lang lesson, Poor (Sherman 3/30)
- 17775 **USA** WYFR-Seituate; 2003 EE, rel pgm (Miller 3/27)
- 17765 **RWANDA** DW-Kigali; 1340-1400\* FF, Af mx, ID (Earhart 4/3)
- 17765 **USSR** RM-Tula; 1430-1830 to Af including 1500 & 1630 EE and 1430 RS P&P EE (Legge 3/25)
- 17765 **USA** VOA-Delano; 2342 EE, Poor (Sherman 3/30)
- 17700NF **E NEDERLANDS** ?; 1854-1950\* EE, pop mx "Netherlands Top 40," /der Happy Station, site unknown, (Conover 3/20, Brown 3/21)-out of or.
- 17775 **USA** WINB-Red Lion; 1725-1740 EE, rel mx, Poor (Earhart)
- 17771 **IRAQ** RB; 0500 AA (Willis-AUST)
- 17790 **ALGERIA** RTVA; 1740-1750 AA, M w/ sports (Earhart 4/3)
- 17795 **AUSTRALIA** RA; 0100-0300 EE, nx, mx, ID, cmntry (Poppin 3/7)
- 17810 **AUSTRIA** ORF; 0740 GG, to SEA (Padula-AUST 3/14)

17820 USA VOA-Dixon; 2325 EE to Oceania, nx, //17895 (Sherman 3/30)  
 17830 SWITZERLAND SBC: \*1530 EE, to ME & Af, "Dateline," (Cohen)  
 17840 CZECHOSLOVAKIA RP: 1755 EE, announcing sked (Zilmer 3/21)  
 17850 USA VOA-Delano; 2329 into Thai (Sherman 3/30)  
 17855 FRANCE RPI: 1010-1015 FF, to Af, //17865 (Padula-AUST 3/8)  
 17855 MALAGASY REP RN-Talata; 1235 DD, nx for SEA (Padula 3/27)  
 17860 AUSTRALIA RA; 0400 EE (Willis-AUST) - is this same as below?  
 17870 AUSTRALIA RA; 0245 EE, top 40, to SEA, Poor (Brown 3/28)  
 17880 PORTUGAL RP: \*1715-1730, \*1758-1830 PP, IS, ID mx (Brown, Conover, Larson)  
 17895 PORTUGAL RP: 1600-1615 EE, nx, Fair (Beaudoin 3/13)  
 17890 TAIWAN VOFC: 0303-0318 EE, mx, ID, cmtry, Poor (Poppin)  
 17895 USA VOA-Dixon; 2318 EE, nx, //17820 (Sherman) - site unlisted in spring sked, but Dixon listed for winter - ed.  
 18080 ENGLAND BBC: 1426 Bengali, tlk (Yajko 3/21)  
 21495 PORTUGAL RP: 1825-1835 mx, EE ID into FF; 1528-1540 PP, choral singing, no ID, listed for Goa (Earhart)  
 21515 PHILIPPINES PEBG: 1130 into Javanese, //7225, 11890 (Padula-AUST)  
 21515T USSR Simferpol; 1405-1420 RR, possibly Sat RR svc from Simferpol on a freq listed for that site (Earhart 3/20)  
 21535 SOUTH AFRICA RSA; 1335-1350 EE, mx (Earhart 3/20)  
 21570NF PAKISTAN RP: 0541 Urdu, ex 15325 (Padula-AUST 3/8)  
 21590NF PAKISTAN RP: 0310 Swahili, ex 11885 (Padula-AUST 3/8)  
 21600 W GERMANY DW; 1422-1433 Amharic, Fair (Earhart 3/20)  
 21620 FRANCE RPI: 1433-1440 FF, Fair (Earhart 3/20)  
 21635 NETH ANTILLES RN-Bonaire; 1730-1820\* DD, sports, variety, nx (Brown 3/6, also Earhart 4/3 on 21640NF)  
 21695NF SWEDEN RS: \*0930 FF to ME, into Swedish at 1000 (Padula-AUST)  
 21720 GREECE EIPT: 0900 Grk to Aust, into EE at 0915 (Padula 3/20)  
 21730 NORWAY RN; 1105 NN to ME & Aust, ex 21655 (Padula 3/31)  
 21730 PAKISTAN RP: 0545 Urdu tlks, ex 15115 (Padula 3/8)  
 21740 USSE RM; 0940-1000 Indo (Padula-AUST 3/20) - Thanks Bob for the extensive reporting on the entire D Section - Tom

And thanks again to all of you who shared their loggings to improve Section D. The more reports that I receive, the more extensive can be the published loggings. I would like to see more people reporting. If just three or four reporters failed to get their loggings in, this section would only be half as long. Also let's look for those stations between the superpower EE transmissions. There is DX among them as some of you found this month.

I added the sites for many VOA reports using their frequency schedule. Please tell me if you hear differently.

Each month I am frustrated by one or more reports that I find hard to believe. Many areas are deleted. Two areas to check are:

- 1) Images and Spurs: All receivers will occasionally give spurious signals. Single conversion sets with a 455 kHz IF can give reception of a station at a frequency 910 kHz higher or lower depending on the design. The problem gets worse at higher freqs. Even more expensive radios have spurious signals due to mistuning, design, etc. If the station is far out of the band, check this possibility.
- 2) Tropical Band Stations: I have received reports for stations not known to operate above the tropical bands. Although I cannot completely discount such reports, they don't include the details that should be required. If you have such reception, check for harmonics and spurs, and then report in depth to support your conclusions. Then I will be glad to go on a limb for you.

As an introduction, I am 30 years old and teach at Clemson. I got started in DXing back in 1961 with a 1940 Knight armchair radio. It was a terrible radio with multiple image bands making it impossible to even guess the meter band on occasion. After a few years, I quit. In 1971 I found a 1930s vintage RCA and got back to listening. I have traded and sold several receivers until I worked up to an SP-600 with a BC-221-AK for frequency measurements. At the present, my antenna is a 25 m long-wire.

I would enjoy hearing from you - especially anyone who lives in this part of the country.

73.

Tom

For this month, we had 61 reporters. This is down from last month. The faithful few send reports in each month, but let's hear from you this month.

Donald ASTON, Rocky River, OH (SPR4)...David BALL, Downsview, Ont., Canada. (DX-150A)...Robert BEAUDOIN, Bridgeport, CT (R-388)...Ernie BEHR, Kenora, Ont., Canada (SPR4/XCR30)...Noel BROWN, Ann Arbor, MI (SB-313)...Jon COHEN, Willingboro, NJ (SW-717)...Jack CONOVER, Pittsburgh, PA (SPR4)...Geoff COSIER, Burwood, Vict., Australia (Trio 9R5DS/Sony CRP160)...Michael CRATER, Topeka, KA (SPR4)...Hadley CRESSA, Harrisonburg, VA (R4C/HRO-500)...William DAVENPORT, Nashville, TN (DX-160)...Jim DAVIS, Travis AFB, CA (R-390)...Tom DETLEFSEN, Deerfield, IL (GR-78)...Kenneth EARHART, Allentown, Pa (DX-150/SX-190)...Marlin FIELD, Hillsdale, MI (SX100)...Dennis FILKA, Parma Hts, OH (DX-160)...Adam GAFFEN, Brooklyn, NY (SSR-1)...Charles GEORGE, Dallas, TX (Star Roamer II)...John GESELL, Tucson, AR (SX130)...Chuck GODDEN, Minneapolis, MN (R4C)...Ciro GUARDUCCI, Cassiar, B.C., Canada (SPR4) Editor Glenn HAUSER, Urbana, IL (HQ160)...Werner HOFFMANN, Newark, OH (SSR-1/NC-140)...Chris HYNES, Erie, Pa...Jack JONES, Jackson, MS (DX-160). Joseph KOENIG Sr., Elmwood Park, NJ (DX-160)...R.J. KOZIOMKOWSKI, Amsterdam NY (SX111/DX-150)...Richard LARSON, Minneapolis, MN (SPR4)...Arnold LAUSE-VICH, Milwaukee, WI (DX-150B)...Irving LEFFLER, Brooklyn, NY (DX-160)...Roger LEGGE, McLean, VA (Collins 51J)...Jerry LINEBACK, St. Joseph, IL (SPR4)...Jim LONG, Guadalajara, Mexico (CRP-150)...Pete McLAUGHLIN, Dover, DE (SPR4/Lloyds 9N24)...Pitt McNEIL, Washington, D.C. (Allied X-190)...Don MANLEY, Topeka, KA...Publisher Alan MAYER, Park Forest, IL (SPR4)...Albert MILLER, Jr., Youngstown, OH (HRO-500)...John MORITZ, Jr., Youngstown, OH (DX-160)...Ted MUSZYNSKI, Wallingford, CT (DX-160)...Larry NEBRON, Daly City, CA (SX190/SW4A)...Timothy NOONAN, Milwaukee, WI (SW4A)...Editor Tom OVERTAMP, Seneca, SC (SP600/BC-221AK)...Bob PADULA, Surrey Hills, Vict., Australia (Marconi CR100)...George POPPIN, San Francisco, CA (CRP5090)... Editor Greg RAVENHORST, Hollandale, MN (R4C/DX-150A)...Don ROJEWSKI, Tacoma WA (DX-160)...Richard SCHWARTZ, Dover, DE (SX190/S-108)...Ed SHAW, Lexington, KY (SP600/R390A)...Chris SHEEHAN, Toronto, Ont., Canada (9R-59D)... George SHERMAN, Minneapolis, MN (HQ-150)...Myron SMITH, Spencerport, NY (SB-310)...John TRAUTSCHOLD, Menomonee Falls, WI (SP600/SB310)...John TUCHSCHERER, Neenah, WI (HQ180A/HQ100A)...William WATSON, USS Petrel, Charleston, SC (R-1051B/URR)...Bill WHITACRE, Lansing, MI (R4B/SX96/SW4A)... Mike WILLIS, Hampton, Vict., Australia (Trio 9R59DE)...Frank WOLTMAN, Cambridge, WI (DX-160)...Robert YAJKO, Leechburg, PA (SPR4)...James YOUNG, Wrightwood, CA (HQ180A)...Robert ZILMER, Milwaukee, WI (SPR4)...

**ON SENDING REPORTS:** In order to make things go smoother for myself and for the four Log Report editors especially, here are a few guidelines which I hope reporters to "Log Report" will follow. It will really help, and will reap bountiful blessings from yourstruly! (1) If possible, use the NASWA report forms, which can be gotten by sending a stamped, self-addressed envelope to Headquarters, and simply requesting some. (2) Cut apart all reports. I cut up 35 pages of reports last night, and right now, this takes up the majority of my time just cutting! (3) Arrange your reports from the lowest frequency to the highest. (4) Use only 1 side of the paper for your reports. If you use both sides, it gives the editors fits. And finally, (5) Allow a few days for your reports to get to me. Somehow, a few reporters expect that reports sent on the 12th will arrive the same day. The "Snowshoe Express" don't work that way, folks! Allow about 5 days. If everyone followed these few suggestions, it would make the job of the editors alot easier. Now that there are no more questions (I hope), let's see a pile of good DX reports come in this month. Even though summer is approaching fast, there is still alot of good DX waiting out there.73's

**HELPING HAND:** Wanted to buy. Allied SX-190 receiver. Contact Hans W. Schelke, 1010 Clubland Point, Marietta, GA 30067. State price. *Greg R*

**HELPING HAND:** Wanted to buy. Reasonably priced used Panasonic RF-8000 24-band receiver. Contact James P. Fraley, 3714 Herbert Avenue, Pennsauken, NJ 08109. State price.

**HELPING HAND:** For sale. Heathkit GR-78 receiver, like new \$95.00. Hallcrafters SX-99 in very good condition \$55.00. Contact James Hartung, 601 Rowe Drive, Aberdeen, MD 21001.

**HELPING HAND:** For sale. Back issues of Popular Electronics magazine from 1964 thru 1971, some years complete, others just certain issues. Also some copies of Radio TV Experimenter and Electronics Illustrated. Will negotiate price. Contact James A. Conrad, 545 Kirkwood Avenue, Waterloo, IA 50701.

**HELPING HAND:** Advertising space available to NASWA members for free. Send copy containing details to NASWA HQ, P.O. Box 13, Liberty, IN 47353. Limit copy to four or five lines maximum.

# NASWA

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Unity and Friendship

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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 Ralph Perry. All reports for the DX HOTLINE go directly to Ralph at 201 E. Cook Street Apt 416, Libertyville, Illinois 60048 USA. One issue of DX HOTLINE is incorporated in each issue of FRENDEX, 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 airmailed overseas for \$ 5.00 per year. These fees are, of course, in addition to the annual membership dues.

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