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North American SW Association

**APRIL-1977**

P.O. Box 13  
Liberty IN 47353



WELCOME TO 75 NEW MEMBERS DURING MARCH

AREY, Thomas J., Willingboro, NJ	KONON, Michael, Dearborn, MI
BROWN, H.E., Mt. Pleasant, IA	KOWALSKI, Ed., Philadelphia, PA
BRYANT, Steve, Bourbonnais, IL	KRAUSE, David P., Easklake, OH
CARUSO, Rick L., York, PA	KUKAN, Robert, Irvington, NJ
CHODACZEK, Tad F., Western Springs, IL	LYNWOOD Phillip, Grand Ledge, MI
CLARK, Gerald L., Lafayette, IN	McCOOL, Lewis, Grenada, MS
CLASSE, Edward A., Colonial Hgts, VA	McWILLIAMS, Victor, Lincoln, NE
CLAYTON, Richard J., Canoga Park, CA	MacDONALD, David, Prairie Village, KS
CROZIER, Henry, Menlo Park, CA	MANN, John H., Wingham, Ont.
CURTIS, B.A., Toledo, OH	MATTHEW, James R., St. Johnsbury, VT
DULMAGE, William, Colborne, Ont.	NAGEL, William, McKees Rocks, PA
EEJIMA, Bruce, San Francisco, CA	NEFF, Chuck, Stronghurst, IL
ETHEN, Craig, Portland, OR	NEUFELD, Mace, Beverly Hills, CA
FELDMAN, J., Bronx, NY	NEVES, Jerry H., San Bruno, CA
FISCHER, Robert E., Fairbanks, AK	O'BRYAN, Virginia, Fairbanks, AK
FRANK, Kenneth, Estevan, Sask.	PAVLICSEK, John H., S. Milwaukee, WI
GARNER, John J., Thunder Bay, Ont.	PEARSON, Harvey, Greencastle, MO
GOLDEN, M. Keith, Arlington, VA	RONICK, Morton S., Virginia Beach, VA
GOLDMAN, Jeffrey, Bridgeport, CT	ROSENSTEIN, Jay, Framingham, MA
GREBOWSKY, Joseph M., Kensington, MD	RUEHLE, Thomas, Fenwick, Ont.
GREEN, Joseph D., Salt Lake City, UT	SANFORD, Clifford L., Toledo, OH
GREESON, Maurice M., Irvine, CA	SELF, Charles, Northfield, MN
GRUNDHÜFER, Willi, Freiburg, Ger.	SHIRAISHI, S., Sendai Central, Japan
HAFTER, Chapel Hill, NC	SHUTZBAUGH, George, Dayton, OH
HAMILTON, Mark W., Steubenville, OH	SMITH, Don, Marion, OH
HART, David, La Crosse, WI	SMITH, Tom, Meadville, PA
HEATH, Roger, Chicago, IL	STEELE, C.V., Atlanta, GA
HECKER, James A., Cheyenne, WY	TAILLON, Nelson, Elkford, B.C.
HERMANN, Frank J., Kitchener, Ont.	TADY, George R., Mercer Island, WA
HOUGHTON, John, Scarborough, Ont.	TURNER, Rudolph, Ellwood City, PA
INGOGLIA, Robert T., Hackensack, NJ	VALLE, James L., Dearborn Hgts., MI
JACOBSON, Robert W., S. Lake Tahoe, CA	VANDERSLICE, James R., Eugene, OR
JOHNS, Kenny R., Jackson, TN	VARGO, Joseph E., Detroit, MI
JONES, David, Dayton, OH	VENTURA, David, Gurnee, IL
JONES, Harry W. III, Reston, VA	WALSTON, W.C., Highland, MD
KETTLES, J.F., St. Paul, MN	WASHOFPSKY, Ralph, Gulfport, MS
KNOSPE, Robert H., Wilmington, DE	YOUATT, Dr. Y., Nipawin, Sask.
KOCHER, Robert D., Ft. Worth, TX	

## EDITORIAL

20 March 1977

NASWA members and others have been recently aware of what apparently was an editor problem on the FRENEX staff. First, there was the sudden announcement of Charlie Loudenboomer's retirement. Next, there was an unexpected editorial in Listener's Notebook and a cryptic reference by Headquarters to the possibility of Glenn Hauser leaving the staff. For those of you having interest in the DX Hot Line, the mid-month issue carried yet another editorial by John Moritz. The editorials were made by the individual editors without the knowledge of Headquarters, and before any explanation could be issued. All of these incidents are related.

In the case of Loudenboomer, whose anecdotes were often barbed with wry wit, a NASWA member complained injury. Charlie's anonymity has been sovereign, in that NO ONE knows who he is - and, that is the truth! In this instance, Charlie's anonymity was a weapon against which the injured party had no hope of defense. To Charlie, it was in jest, but to the injured, it was a humiliating experience of public ridicule - and, Headquarters agreed with him. Charlie should not have had such power and license. There was no place for the object of his satirical barbs to turn, other than to Headquarters, and we in turn had no place to contact. At that point, a decision was made - albeit, perhaps a hasty one - to retire Charlie's brand of humor. We sincerely regret his loss, and wish that some reconciliation could be fostered. We are confident that the membership now realizes that there was more than met the eye and can understand some of the difficulties of management. Hopefully, Charlie will contact us and agree to temper his humor with a bit more compassion, but he should not remain hidden where he may strike with impunity from behind anonymity.

The Listener's Notebook had occasionally lent itself to use of certain four-letter words. In addition, there had been some ongoing discussion about the relevance of materials in parts of Glenn's section. To headquarters, it appeared that some materials were irrelevant trivia, which space was better devoted to other more useful items. We believed it was the Executive Council's inherent duty to influence an editor to adhere to what they believed was best for the membership. At this moment, an amicable settlement is agreed upon and all principals are interested in proceeding with the business of our hobby.

With the issuance of the mid-month DX Hot Line, Headquarters was made aware of editor John Moritz' opposition to NASWA's Standards for Editors - a document designed to provide guidance and moral support. In his editorial, John published his intention to do with DX Hot Line however he saw fit. Headquarters would have been much happier if John had first approached us with any disagreements he had with the Standards - but he did not. We regret his irrevocable decision to resign rather than abide by the standards. All vigorous attempts to dissuade his decision were rejected by him. While the main issue of John's editorship was use of four-letter expletives, it is also good business for editors and management to understand one another. In John's case, Headquarters believes there was a basic difference of philosophy. In any case, overtures to him for retaining his editorship were rejected.

NASWA editors have always been independent in their judgments, and HQ respects the responsible judgments of the editors. However, we do still believe that editors have the responsibility to work with management, since Headquarters is the ultimate agent responsible for the relevance, legality, and propriety of whatever is printed in FRENEX. We are confident the members agree with that.

The Executive Council sincerely regrets that internal business matters were aired in this undignified manner. We believe it was all unnecessary except in defense of policies we believe to be best for all concerned.

We were not a little dismayed at some cards and letters received (as a result of John Moritz' editorial) accusing Headquarters of censorship. It is difficult to accept that there are some NASWA members shallow enough to imagine the worst from an initial editorial...from one side only. We trust that they are calmed now. NASWA members may rest assured there has never been one word censored from any section during this administration.

In the near future, NASWA members will have the opportunity to express themselves on important NASWA government issues. No major shake-ups, just some revisions to the Constitution. We urge members to read the Constitution carefully and the proposals which will follow soon.

In the meanwhile, please let us have your cards and letters. We are anxious to publish them. They may be sent to any Council member, but preferably to QSO/NASWA address. Ed Shaw will correlate them and print as many as possible in that section. We'd like to know what you think of NASWA and how we can improve NASWA and FRENEX.

Mac R. Leonhardt  
Executive Director

#### The Executive Council

Mac R. Leonhardt  
Executive Director

Alan Mayer  
Publisher

Edward C. Shaw  
Secretary

In the interest of sharing with the NASWA membership some of the business of internal matters, we are publishing herewith in condense form, the Standards for Editors for all to read. When you are writing to us, please let us know your opinions.

1. Serve your position with confidence that you will be backed by the Executive Director and the Council.
2. Print only the truth or what you believe to be the truth.
3. Refrain from personalities. Never use your section as an unfair advantage to belittle anyone.
4. Stick to the subject of DXing! Avoid politics and religion.
5. Avoid cursing and expletives. Some will be offended if you do, but none will if you don't.
6. Adhere to the use of NASWA Country List names and use only abbreviations known widely in the hobby.
7. Stick to the concept of SWBC only. There are other good clubs to cater to utilities, harmonics, etc.
8. Don't use material belonging in another editor's section.
9. Make no unauthorized statements about NASWA business without first discussing it with NASWA HQ.
10. Beware of developing an "Holier-than-thou" attitude, for there will always be better DXers than yourself.
11. Avoid questionable or too-good-to-be-true items until you are satisfied as to their authenticity.
12. Be especially mindful that beginner's loggings are submitted in earnest. They are contributing as they know how. They will learn. It is correct to edit out any useless material, but always credit them in the contributors list.
13. Develop a rapport with your regulars. Welcome new members. Speak well of your associates. It reflects nicely on NASWA and it will net you dividends in the long run.
14. Maintain a clean typewriter. Submit your work on time.

For NASWA readers: If you could do so, what would you delete or add to the Standards? Are they necessary at all? What questions should we have asked?

AND NOW, BACK TO OUR HOBBY.....

# shortwave CENTER

JERRY A. LINEBACK, EDITOR  
P. O. BOX 325  
ST. JOSEPH, IL 61873

APRIL 1977

Welcome to another issue of FRENEX. The articles in Shortwave Center and the other sections of FRENEX are contributed by you, the NASWA Associate. We thank all those who contributed to this month's issue and request that you consider sending your articles on shortwave subjects to Shortwave Center. We need well written, timely, articles to fill 1, 2, or 3, FRENEX pages. We hope to hear from you.

ANTENNA ISSUE-Special Announcement. Considerable interest was shown in articles about antennas during the recent offering of reprints. Therefore I plan to have the September issue of Shortwave Center as a Special Antenna Issue. Please send me your favorite antenna designs. Also included will be antenna mounting systems, tuners, ground rods, or other things associated with antennas. These and all other material for the September issue should be here by 15 July. Deadline for timely material for the May issue is 12 April.

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## DX-150

### FREQUENCY INTERPOLATION FOR THE DX-150

by James Incoronato, Winnipeg, Manitoba

Since a lot of the reporters to Log Report have DX-150s (A or B), I thought I'd give my method of graphless frequency interpolation. First I'd like to say two things. 1) I have used both graphs and this method, and I have found out that in most cases, this is more accurate but a little bit more time consuming. 2) I am going to stick to 60 metres, since it is most accurate here and this is the only band I have worked out the conversion factors for.

All the DX-150s are calibrated for the ham bands. These are of very little use to the DXer as they are. My method is a simple mathematical method. A simple 4-function calculator is invaluable here. The middle calibrating band on the bandspread dial begins at 14.35 when turned all the way to the right. This is the scale for the 20 metre amateur band. I use this one as it is continuously calibrated unlike three of the others. The dashes on the scale are also convenient.

The method is as follows: Set the scale (anytime I refer to scale, I am referring to the scale on the bandspread dial and nothing else) on 14.35 EXACTLY 14.35. Next, find WWV at 5 MHz with the main tuning dial and center it EXACTLY. When you have done this you can find any station within 4850 kHz to 5000 kHz using a certain multiplication factor. This factor is found by picking or making a marker 100 kHz down from 5000 kHz (that is 4900 kHz). When you have this marker (i.e. by using a crystal calibrator) slowly turn the bandspread towards the left until you locate it. Read the number on the scale that corresponds to that 100 kHz marker. Let's say for example it reads 14.105. In this case 10.5 is 24.5 dashes down from 14.35 ( $35-10.5=24.5$ ).

Now you know that these 24.5 dashes "down" are equal to 100 kHz. It is now a simple matter to find out what each dash equals. All you have to do is divide the 100 kHz by 24.5 which equals (in this case) 4.0816327. With this constant, all you do is multiply the number of dashes you are "down" and subtract the result from the top of the 150 kHz section you are working in (5000). Example: You have set up everything as described and you hear a station at 14 dashes "down".  $14 \times 4.0816327$  (the constant) = 57.142858. Take this answer, round it off, and subtract it from the top of the segment (5000) and you get the frequency.  $5000 - 57 = 4943$  kHz. Presto, you have your frequency. To find the constant for another segment, set the scale at 14.35 again and use a calibrator to make a 100 kHz marker and this time instead of going to 5000 kHz, go to the next marker past WWV, down in this case to 4900, and center the calibrator signal on 14.35 by using the main tuning, then proceed as before. I want you to know that the numbers given above are just an example. Here are my constants. I have checked them on one other set, a DX-150B, and they were pretty accurate there also.

Frequency	Constant	Dashes=100 kHz
5200-5100	4.3478261	23
5100-5000	4.0816327	24.5

Frequency	Constant	Dashes = 100 kHz
5000-4900	3.8999999	25.6
4900-4800	3.6363636	27.5
4800-4700	3.4482759	29
4700-4600	3.2258065	31
4600-4500	3.030303	33

This probably sounds a lot more complicated than it really is, but the accuracy is about 1 kHz when done properly. I hope this helps some of you to log those tricky ones on 60 metres. It can also be applied to the other bands as well.

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## World Wide DXer

THE WORLD WIDE DXER

by Gerry Bishop, Christiana PA

This may seem to be a difficult award, to the beginner anyway, but is really not that hard to qualify for, if you want to put the time and energy into it. For this award you are required to verify ". . . at least one station from 50 different broadcast countries", according to the specifications listed on page 15 of the NASWA countries list. Fifty may appear to be a lot, but you'll see in a second how that's not the case.

First of all, check this issue of FRENEX and see how many countries were reported. A lot more than 50, right? Now check QSL report, and see the number of those countries that verified. Already fifty is getting smaller, and you can probably have your certificate in about four months, international mails permitting.

Now you believe you can have, but where do you go from here? To the radio! If you've been at it for about two months, then you probably have around ten countries verified already, among these the U.S., Canada, Ecuador, Netherlands Antilles, and Ascension IS. If you were really working hard, the number might be around twenty or twenty-five. So let's assume you have got about thirty more to go.

The specific radio countries that you verify will probably vary from the ones your buddy will QSL. It depends on when you listen, and where you do your DXing. A listener on the west coast will not hear Europeans the way someone in New York might, but the reverse is true about the Asian countries. A DXer in New Jersey will not hear many Asians until he has been at DXing for sometime, however, it will be easy to log thirty new countries from wherever you are.

If you live east of the Rockies, Africa offers a great number of SWBC countries that are easy to hear, especially at their sign-on times. The religious outlets are good verifiers, and the VoA and Deutsche Welle both have relay stations there. Several locals added in, you could have twelve veries. (Africa can also be heard on the west coast of NA, but is tougher for the novice than our next continents.)

Asia and Oceania will provide some excellent DX, and some reliable verifiers. These two continents can add about twelve countries to your total and more if you live where reception of the low-powered Indonesians and Papuans is good. So we have twentyfour, about half way there.

No matter what your location, you should be able to log and verify fifteen Europeans. There are more, most with NA services, but fifteen will do for now. The Soviet dominated Eastern Europeans will verify relatively fast, but the other countries may take from three to six months.

The total is now 39, so it should be easy to QSL eleven countries in North and South America. SA has four "easies", Ecuador, Venezuela, Brazil, and Colombia) and seven from North America is no sweat at all. And there you have it, the World Wide DXer award.

Don't get impatient if your anticipated QSLs don't arrive as soon as you would like them to, especially if you sent no return postage. A surface mail letter could take six months from date of dispatch, so, for some of the smaller stations, it might be wise to include an IRC or two and ask for airmail reply, politely, of course.

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## The Foreign DXer

COUNT YOUR BLESSINGS

Submitted by Alvin Sizer, North Haven CT

Sam Barto, a FRENEX editor from Connecticut, has been corresponding with foreign DX clubs and exchanging copies of NEES (New England DX Society) bulletins with them.

From a letter from behind the Iron Curtain Al Sizer, another Connecticut NASWA member, edited the following text. The name of the country has been omitted to spare the writer any possible embarrassment and repercussions. There are, unfortunately, many countries it could

have come from.

It is reproduced here as an example of some of the difficulties our fellow hobbyists have in other parts of the world.

Dear Mr. Barto:

Thank you for your letter received at September and interesting NEDS News Bulletin. Please excuse me I'm answering so late after my return from military duties.

A situation with our DX organization develops very slowly in the local conditions and for the present we cannot to speak about official DX club. We are a group of DXers only and we are waiting to occasion to found the club within the framework of some official national organization here. This way is only possible in our country or in other socialist countries. The hope for independent club is not prospective for us unfortunately.

Our publication is not bulletin but circular only . . . Unfortunately is not possible to make any copies without official license and I can not send you any copy.

. . . I must also remind that here is DXing unknown hobby for the present. No literature and Post Offices do not emit IRCs.

Please excuse my wrong English.

(Signature)

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## R-390

### USEFUL MODIFICATIONS TO THE R390 AND R390A RECEIVERS

by Forester Isen, Louisville KY

Owners of R390 and R390A receivers can make several circuitry modifications which will eliminate the 3TF7 current regulator tube and the 26ZW5 tubes. The 3TF7 is not easy to obtain, and is relatively expensive besides. The same situation applies to the 26ZW5 rectifier tubes.

In the case of the R390A, the 3TF7 tube can be completely eliminated by making a few changes of wiring. The following steps should be followed:

- 1) Remove the IF subchassis from the receiver (loosen the three green retainer screws; loosen the compression collars which couple the BFO and bandwidth shafts to the IF subchassis; remove the wire harness plugs).
- 2) On pin 7 of RT510 (the 3TF7 tube), you will find a white and black wire. Remove the wire from pin 7 and solder it to the nearest ground terminal, such as the one adjacent to the tube socket for V505.
- 3) Connect a wire from pin 3 of V505 to pin 9 of V506.
- 4) Replace the IF subchassis in the receiver. The receiver will now work without the 3TF7 tube, as the BFO and VFO tube heaters are now fed in parallel from the 6.3 VAC supply.

The R390 does not have a 6.3 VAC heater supply; thus the following notes tell what tubes can be used in place of the 3TF7 tube.

Any tube that uses 12.6 VAC at a current of 0.3 amps will serve the same purpose as the 3TF7. The following tube types can be used: 12B4A, 12BH7A, 12BY7A, 12BZ7, 12CT8, 12BV7, 12DQ7. More common types such as 12AU7A will not work as their heater resistances are too large (or in other cases too small).

The 3TF7 has wires on pins 2 and 7 of the tube socket; to adapt the socket for any of the above tube types, remove these wires and reconnect them to pins 4 and 5 of the socket.

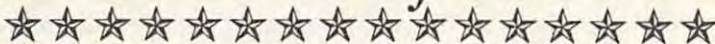
The high voltage supplies of the R390 and R390A both use two 26ZW5 rectifier tubes in a full wave circuit. Each 26ZW5 tube can be replaced with a solid state diode (rectifier). Such devices may be obtained at most electronic supply stores, including Radio Shack.

For the R390, obtain two diode rectifiers rated at an RMS PIV of at least 600 volts and a current of at least 0.5 amp. (Higher ratings for current are desirable to ensure low operating temperature and hence longer life. Diodes rated at several amps are inexpensive and easy to find.) For the R390A, two diodes rated at 600 volts PIV (RMS) or greater and a current of 0.2 amp. (preferably greater) are necessary.

The following instructions apply to both receivers. Remove the power supply subchassis and remove the two 26ZW5 tubes. On each tube socket, connect the cathode of a diode to either pin 3 or pin 8 (the two pins are connected together). Connect the anode of each diode to pin 1 or pin 6 of the same socket. You should now have two sockets, each of which has a diode connected between pin 3 (or 8) and pin 1 (or 6). Be sure to identify the cathode and anode correctly and to connect them as directed. If the current rating of the diodes is several times the minimum, they will last indefinitely.



# SPECIAL feature



GETTING REACQUAINTED WITH THE SX-190

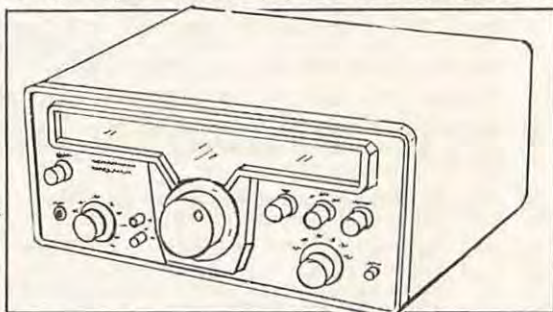
by EDWARD SHAW

This is a receiver which I got to know intimately. I have been inside and out of it for several years, making repairs, alterations, and experimental changes for entertainment. As one top NASWA DXer expressed it, "It (the SX-190) is an experimenter's delight!"

SX-190 (and its AX-190 amateur band twin) was manufactured for Radio Shack in Japan. It very nearly is the same receiver circuit as the Hallicrafters SX-117 of ten years ago. The SX-190 probably was the most advanced receiver for the price. Today, it still compares favorably with the most popular serious DX machines. Some experienced DXers feel that the SX-190's 60 meter prowess is unsurpassed. It was the first receiver to include most of what every DXer needed. And, whatever was missing could be easily added.

It was a crystal controlled, VFO receiver with preselection - not just advanced RF amplification. It had crystal-controlled Upper and Lower Side Band ability. It had a TUNEABLE IF pass band with either a C-peak or T-notch. Frequencies could be read with visual accuracies of about 100 cycles - that's CYCLES, I said! They are available only on the used market now. In Australia, I've heard of prices like \$480 U.S. being paid for them. Originally, in the U.S. they sold for \$250, and then were sold on clearance sale for \$170. I have two and will not part with them.

As it came, the SX-190 had crystals to provide reception on 75, 49, 41, 31, 25, 19, 16 meters; also 20 meter ham and 11 meter CB. Two blank spots were available for installing your choices of any two other segments of 500 KHz. Most persons opted for a crystal to provide the 4.5 to 5.0 MHz band of 60 meters.



Additionally, though the receiver manufacturer said "down to 3.5 MHz", the SX-190 actually covered down to 3.0 MHz easily. Many purchased the crystal to provide 3.0 to 3.5 MHz (90 meters) which is filled with the richness of Latins, Africa, and far South Pacific islands.

The sharp selectivity of the IF enables the DXer to hear powerful signals even as close as every 5 KHz. Only the most advanced and expensive rigs can do that today.

One could even dial in more frequencies than they had crystals for, too. The preselector could be deliberately mis-tuned to provide additional bands of frequencies. For instance, the 75 meter crystal normally provided 3.5 to 4.0 MHz coverage. But, deliberate mis-tuning could also make it provide 9.34 down to 8.84 MHz. It was some minor inconvenience to read and figure frequencies backwards, but then I was able to pick up many stations in that band....Israel on 9.009 KHz for instance.

I wish that a synthesized version would appear on the market! (Cont'd)

GETTING REACQUAINTED WITH THE SX-190 (Cont'd)

There are some tricks to allow extra coverage. Each of the crystals in the SX-190 can be deliberately mistuned in a higher range. For instance, the 3.5 MHz crystal provided with the SX-190 may be mistuned on the pre-selector for a range of frequencies between about 9,340 KHz and 8840 KHz. Try it! Notice that the preselector peaks at two places...once at about 3.5 for normal use, and again above 9.0 MHz! With your tuning knob on zero, peak the preselector to highest level on the S-meter. Then slowly turn your tuning knob clockwise. (Punch in your 25 KHz calibrator). You will get a calibrator signal about ten KHz away from the zero point. This is really 9,350 KHz. Notice again that the scale of frequencies on this mistuning trick run backwards, descending in frequency to the 500 KHz spot on your tuning dial. 9.009 KHz Israel can be found in this manner at about 331 on the tuning dial. Below are some ready-figured scales for your convenience. Actual frequencies obtained are shown.

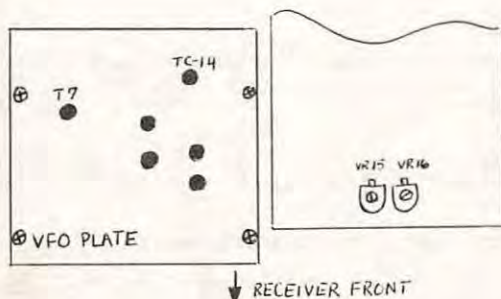
Crystal	0	100	200	300	400	500 Dial Number
3.0 *	8.84	8.74	8.64	8.54	8.44	8.34
3.5	9.34	9.24	9.14	9.04	8.94	8.84
4.5 *	10.34	10.24	10.14	10.04	9.94	9.84

\* These crystals do not come with the SX-190, but some people have acquired them from sources on their own for additional coverage.

Mistuning in the higher range of frequencies is accomplished in the same way, but readers can make a chart of their own if they desire to do so.

REALIGNMENT AND PEAKING PROCEDURES.

To realign the main dial, you will first need some tuning tools from the local electronics store. Radio Shack has an adequate set for about \$2. Open your receiver cabinet and examine from the top, front toward you. We are interested in the center VFO section. It has the appearance of a metal box with a crewed-down metal plate on top and having holes in it.



Examine the illustration above. Note that the extreme left hole is designated T-7 and the extreme upper right hole is designated TC-14. The left hole is centered over a ferrite slug tuned coil which is adjusted with the hex-tipped plastic tool from your new tool set. Try each until you find one that fits. NOTE: Before we go further, it may be

useful to get a pocket penlight flashlight for aid in seeing into the VFO cover holes in order to place your instrument tool correctly. The upper right hole is centered over a trimmer condenser which is tuned with a plastic screwdriver. Now we are ready to begin:

1. Receiver should be warmed up 30 minutes before starting work.
2. Connect your antenna.
3. Control settings: RF gain full clockwise; AF gain adjusted to comfortable level; Band selector on 15 MHz; Function switch on AM: Q-Multiplier is OFF.
4. Tune main dial to receive WWV on 15 MHz. Normally, it should be at Zero on the dial.
5. If it is not on zero, adjust the TC-14 (upper right hole) until WWV is centered precisely.
6. Remove antenna, no longer needed. Push 100 KHz calibrator button. If S-meter is too far to right, back off RF gain until needle indicates about S-6. Leave calibrator ON.
7. Tune main control to 400 and search for calibrator signal. If not precisely on 400, adjust the T-7 (left hole) until signal appears precisely on 400.
8. Tune main control dial back to zero - calibrator signal will possibly be off-center again. Readjust TC-14 until calibrator signal centers on zero.
9. Repeat step (7), then repeat step (8), etc. until the calibrator signal remains centered precisely at the zero and 400 marker spots.

**CAUTION:** Remember that the T-7 adjustment is ONLY for the 400 marker spot, and the TC-14 adjustment is ONLY for the zero marker spot. If you confuse the two, erroneous adjustment will result and you will have to start all over again.

#### Q-MULTIPLIER ALIGNMENT

Now we are concerned with two small variable resistors on the right side of the receiver's circuit board. These are identical components located immediately behind the S-meter. They appear as side-by-side semi-circles illustrated as VR-15 and VR-16.

1. Control settings: RF gain full clockwise; AF gain full counter-clockwise; Function switch on "AM"; Calibrator-ON 100 KHz is on 100 KHz.
2. Put Q-multiplier switch to "Reject" position.
3. Adjust VR-15 (nearest to center of receiver) until minimum signal is obtained on the S-meter.
4. Put Q-multiplier switch to "Select" position.
5. Adjust VR-16 until highest S-meter reading is obtained. Re-adjust RF gain knob until needle drops to S-3 or S-4.
6. Leave switch in "Select". Adjust tuning knob left and right to observe whether or not there is any squeal. If no squeal, you are O.K. If squeal is noted, readjust VR-16 to slightly less S-meter reading until squeal disappears during tuning.

## Beginners Patch

by David Haas, Woodcliff Lake, NJ

Deutsche Welle- There has been a lot of confusion lately about the times and frequencies that are broadcast from Antigua. A sure frequency in the U.S. is 6040 in the NA service at 0130 to 0150. If you want a QSL from the DW you need at least 15 minutes worth of programming.

Radio Beloj- This station from Costa Rica is so strong, it can be heard almost everyday no matter how the propagation is. Unfortunately it does not verify. The frequency is about 6005 kHz. You can hear this station just about any time near or after dark as it is on 24 hours in Spanish.

Radio Grenada- This station on the Caribbean island of Grenada can be heard most days on 15105. What it broadcasts is really a home service at 2000 to about 2100 GMT.

Sudwestfunk- This station from Germany is audible most nights in German on 7265 kHz. Although it is a lower power station, 20 kW, it is quite strong. You can catch it from 0000 to about 0200.

Radio Nacional Brasilia- This government station from Brazil broadcasts in English at 2100. Although this broadcast is not meant for North America, it is easily heard here on 11780.

Adventist World Radio- This missionary broadcaster has transmissions from both Malta and Sines, Portugal. It broadcasts at 0900 from Portugal on 9760 in English and at 0700 on 9635 kHz from Malta. All broadcasts are on Sundays.

\*\*\*\*\*

## Top 10 Receivers

RECEIVERS USED BY CONTRIBUTORS TO LOG REPORT

by Dr. Heinz Naef-Schmid, Basel, Switzerland

During 1976 quite a lot of articles were published on the pros and cons of individual receivers. I was interested to analyze once the frequency of the individual receivers as they appear in the monthly 'Log Reports' in 'FRENEX Credits' listing.

Below is a list of the first ten receivers as they appeared in FRENEX during 1976. A total of 95 individual receivers were reported with a total frequency points of 912 (which means e.g. that the Drake SPR-4 participates with 15.6% whereas the first ten receivers participate with a combined percentage of 54.4%).

For your information I am also including below the statistics as I found them in SHORTWAVE NEWS of the Danish Shortwave Clubs International, of which I am a member too. Here we had 52 different receivers with a total frequency points of 275 (the Drake SPR-4 participates here with 15.3%, whereas the first ten receivers sum 65.8%).

FIRST TEN RECEIVERS IN NASWA FRENEX DURING 1976 (frequency of mention)

Drake SPR-4	142
Radio Shack DX-160	139
Radio Shack SX-190	45
Radio Shack DX-150A	27
Hammarlund HQ-180A	26
Hammarlund SP-600	25
Barlow Wadley XCR-30	25
Drake SW-4A	24
Drake R-4C	23
Drake SSR-1	20

FIRST TEN RECEIVERS IN "SHORTWAVE NEWS" OF DSWCI (frequency of mention)

Drake SPR-4	42
Barlow Wadley XCR-30	34
Grundig Satellit 2000	22
Collins R-390A	19
Drake R-4B	19
Collins R-391	11
Allied X-190	9
Trio Kenwood 9 R 59 DS	9
VEF 204 (Russian)	8
Hammarlund HQ-180	8

\*\*\*\*\*

REMEMBER: If you want to see it in Shortwave Center, YOU have to write it and send it to your editor. Shortwave Center is your column and FRENEX is your hobby guide. We want and need your contribution, today.

## Forms

SWISS SHORTWAVE RECEPTION STATION - STATION RECEPTEUR ONDES COURTES SUISSE - SCHWEIZERISCHE KURZWELLEN-EMPFANGSTATION

RECEPTION REPORT - RAPPORT D'ECOUTE - EMPFANGSBERICHT						Nr.						
T O R A D I O :												
OP : Dr. Heinz Naef-Schmid				CIN : Wielandplatz 11, CH-4054 BASEL (Switzerland), 7°34' E / 47°33' N								
RX : GRUNDIG SATELLIT 1000 / 2000				ANTENNA : Internal Telescopic / Télescopique Interne / Teleskop Intern								
Reception Date (Day/Month/Year) :				Frequency (kHz) :				Language :				
Date de Reception/Empfangsdatum								Sprache				
T I M E G M T		Program Details - Détails du Programme						QSB	QRM	QRN	QSB	QRM
								S	I	N	P	O
GENERAL REMARKS / REMARQUES GENERALES / ALLGEMEINE BEMERKUNGEN :												
WEATHER CONDITIONS AT RECEPTION TIME : SITUATION METEO / WETTERBEDINGUNGEN												
PLEASE, VERIFY WITH QSL-CARD! VERIFIEZ AVEC CARTE QSL, SVP! BITTE, BE- STÄTIGEN SIE MIT QSL-KARTE! TNX, VY 73, OP :												
<input type="radio"/> IRC ENCLOSED / INCLUS / BEILIEGEND												

Form above used by Dr. Heinz Naef-Schmid and the reception report form below was sent by Louis Buehler. (Note: The center portions removed for illustration.)

Radio Station \_\_\_\_\_ From: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reception Date GMT/UTC \_\_\_\_\_

Reception Time GMT/UTC \_\_\_\_\_ / \_\_\_\_\_

Frequency in KHZ \_\_\_\_\_ Receiver: \_\_\_\_\_

Meterband \_\_\_\_\_ Antenna: \_\_\_\_\_

Comments on reception \_\_\_\_\_

Interference from \_\_\_\_\_

( ) Please Verify ( ) Please send program schedule ( ) IRC or Postage enclosed

S \_\_\_\_\_ I \_\_\_\_\_ N \_\_\_\_\_ P \_\_\_\_\_ O \_\_\_\_\_

Program Details::: Language used \_\_\_\_\_

Signal strength	Interference (Over Signal)	Attenuation (Signal)	Propagation (Signal)	Disturbance (Fading)	Overall Quality
5 excellent	5 none	5 none	5 none	5 none	5 excellent
4 good	4 slight	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 severe	2 poor
1 barely audible	1 extreme	1 extreme	1 extreme	1 extreme	1 unusable

**VL3RT**

VL3RT, AN EDUCATIONAL SHORTWAVE STATION IN AUSTRALIA  
by John Campbell, Newcastle, NSW, Australia

Radio Australia and the ABC are well-known shortwave broadcasters from Australia. What may not be so well-known is that they do not hold an Australian shortwave monopoly. They share SW with what is possibly the world's most "unknown" station, if length of existence undiscovered by SWLs is used as a measure: VL3RT, the Station of the Correspondence School of the State Education Department of Victoria.

VL3RT began broadcasting on 19 August 1953, with a target audience of two: Two handicapped children who could not attend regular schools and who took correspondence lessons at home. The first broadcasts were merely teachers' comments and advice about the children's written work. Not much later, regular broadcast programs of elementary-school lessons took over. The audience grew most rapidly in country districts, outside Melbourne, and country schools were provided with simple \$10 converters to enable reception of 5370 kHz with ordinary MW receivers.

VL3RT arose from a 1951 idea of Mr. R. Mackay, Principal of the Melbourne Technical College. Students of its Radio School built the station around an old 200 watt Australian Air Force transmitter with serial number RAAF 1. Remarkably, the same transmitter is still going, and according to one of the organizers of the Correspondence School, is "still capable of croaking out a message." This is too modest: VL3RT puts in an excellent signal 600 miles from Melbourne, even though its broadcasts are all in daylight hours, and it had to change frequency lately from 5370 to its present 5250 kHz, because of reports of interference with a station in Alice Springs in the center of Australia.

The College is now the Royal Melbourne Institute of Technology. Appropriately, VL3RT lives there on the top floor of the new Mackay Building, and is maintained by RMIT. Programs are sent to the studio on cassettes from the Correspondence School, which is about a mile away.

Country elementary schools still make up some of the audience, but most programs are now aimed at high schools. Language-teaching programs in particular are of an impressive standard, and are popular with schools in Melbourne as well as country districts.

The station is on the air Mondays through Fridays during the school year, except for holidays, from 9 March to 29 October (1976). Elementary school broadcasts are from 0015 to 0030, high-school broadcasts from 0115 to 0135, with repeats at various times depending on the daily subjects, during periods 0135-0245 and 0415-0520.

The management looks forward to being less unknown when details of VL3RT appear in the 1977 WRTH (see page 218). Reception in North America at the present broadcasting may be a little difficult, but perhaps there may someday be one or two broadcasts of lessons in the Australian language, for American students?

\*\*\*\*\*

**Mailbag**

Item to the right was sent in by David Walcutt, Carbondale, IL and is from Deutsche Welle's HALLO FRIENDS for 1/77.

Larry Magne, Philadelphia PA, reports that the Panasonic RF-2200 will hit the stores about 1 April and will list for \$150. However, initial indications are that some will discount it to \$110. It has an RF stage that the similarly priced Sony ICF-590CW does not. We are looking forward to a comparison of these two new portables.

Bruce Barker of Houston TX sent a good suggestion to Sam Barto in response to Sam's records keeping article in last month's FRENDX. He

## ANTIGUA

### NEW RELAY STATION

"All good things come in threes" — a well-known saying also applying to Deutsche Welle up to a short time ago. Today, we are able to say "All good things come in fours" since the Antigua Relay Station was put into operation at the beginning of November. This increases the number of Deutsche Welle transmitters to 27.

Let me say this before anybody has a look at the map: Antigua is one of the Caribbean islands. On Antigua, a relay station with 250 kW short-wave transmitters is operated in co-operation with the British Broadcasting Corporation. Each organization has two transmitters at its disposal. The first transmitter of Deutsche Welle started operating on Nov. 1st, 1976. Transmitter No. 2 is to follow at the beginning of February 1977. All programmes for South America, Central America and North America in German, Brazilian, Spanish and English are relayed from there. In addition, the German programme for East Asia is re-transmitted from Antigua. The frequencies of these transmissions have already appeared in the programme schedules and need therefore not be repeated here.

At Antigua, too, the relay station consists of two installations, the receiving station and the transmitting station. Both are located at a distance from one another and connected by cable so that transmissions do not interfere with reception. The receiving station permits 4 programmes to be received simultaneously, to be processed, to be mixed with pre-produced tapes and to be transferred to the transmitting station. The latter operates 4 transmitters with 250 kW each, as already pointed out. The two Deutsche Welle transmitters have a total of 10 beam antennas at their disposal — in addition, there are another 9 antennas at the disposal of the BBC. The station works on an uninterrupted 2-shift system from 2000 hours to 1400 hours GMT.

Although practically only one transmitter per programme can be additionally used on Antigua, a considerable improvement of receiving conditions can be expected. Initially, there may be interferences because the frequency channels chosen are being used by Deutsche Welle for the first time — but we hope to be well heard in spite of everything.

Antigua permits a satisfactory service for the west coasts of North and South America as the zone of the aurora borealis and the Andes belt are avoided. Let us express the wish, therefore, that all our listeners will enjoy good reception — and, by the way, why don't you write once in a while?

suggests that you make machine copies of your QSLs when they arrive. These copies can be kept together, preferably in a place other than where the original QSLs are kept. Therefore, in case of fire, natural disasters, or moving of household items, there is less chance that your proof of reception will be lost. Bruce once lost 13 years accumulation of QSLs in a move and knows from bitter experience. Thanks for the suggestion.

At a recent meeting of the American Geophysical Union it was mentioned that for the past three years a radar with a pulse power of 10 million watts has been sending a beam upward from Urbana, IL, scanning sections of sky 1000 square miles in area and 25 miles deep. Its target has not been aircraft or satellites or anything else so tangible. Instead, it has been tracking the transient trails of meteors through the earth's upper atmosphere as part of an effort to trace variations in high-altitude winds.

The trails of ionized particles left by the passage of meteors drift in winds 50 to 70 miles above the earth and serve as ideal reflective tracers of wind patterns, according to the researcher. The radar observes 5000 trails a day. Most of the meteors are as small as a grain of sand.

The results of the research show that high-altitude winds affect the density of electrons in the D region of the ionosphere that lies 50 miles above the earth. These in turn affect long-distance radio reception. Winds from the north polar regions increase electron density at latitudes of the United States and Europe, hampering long-distance radio communications, while winds from the south decrease the electron density.

Perhaps this explains the generally poor conditions observed during the January cold spell (editor).

## \*\*\*\*\* Propagation Conditions

by Jerry A. Lineback, St. Joseph, IL

At the recent meeting of the AAAS in Denver, the so called "Maunder minimum", a 70 year long period in the late 17th and 18th centuries when sunspots and all other signs of activity all but disappeared from the sun, was discussed. Historical evidence for this period, discovered by astrophysicist John A. Eddy, coincides with a very clear picture of the minimum shown as a radiocarbon anomaly in tree rings formed at the same time. This enabled calibration of the radiocarbon dating method and that, says Eddy, provides a rosetta stone that now allows us to read earlier solar activity histories in tree-ring radiocarbon records. Tree rings show at least a dozen other periods when solar "misbehavior" was as severe as the Maunder minimum. Each period lasts from about 50 to 200 years. In fact, the present era, the period since the early 1700s is what stands out as abnormal. "We have built our explanations of the sun during solar conditions that have applied but 10% of the time, or less, in the longer run of history."

Also, the latest analysis shows that not only the Maunder minimum, but also each of the other known excursions in solar activity seems well correlated with times of climate change. Extended times of very low solar activity, like the Maunder minimum, correlate with times of cold climate such as the "Little Ice Age" in Europe. High solar activity coincides with warm or benign climate. These records have been taken back to 3000 BC.

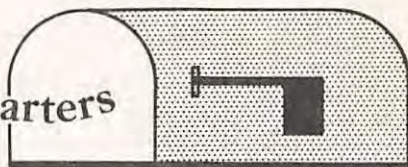
PROPAGATION CONDITIONS has not appeared recently, partially for lack of space and partially for lack of anything to report. The entire period from June 76 to February 77 has been marked with a general lack of prominent monthly peaks in solar activity. Solar flux values reached their highest values (over 90) on 17 February since March 76. The inability to delineate monthly cycles clearly makes difficult prediction of geomagnetic activity associated with the monthly cycle. Geomagnetic activity has been low also. Peaks in geomagnetic activity took place on 30 Jan, 9 and 24 Feb, and on 9 March. Those on 9 Feb and 9 March were apparently "A" peaks related to increasing solar activity. A notable low in solar and geomagnetic activity took place between 26 Feb and 8 March when there were good and quiet openings to Indonesia and Malaysia. I heard several Indonesians and Malaysians at good levels on 5-7 March when the flux was about 78 and the A-index was rising from 3 to 7.

Predictions? Another solar flux peak ought to occur about 5 April, but I can't be certain. A geomagnetic peak should take place early in the cycle and again as it declines, but it is a wild guess until we get some regularity in the cycles, if we ever do.

Thanks to all our contributors this month. Keep the articles coming, we need your contributions. 73s till May-Jerry A. Lineback

# QSO/NASWA

letters to headquarters



EDWARD C. SHAW, QSO EDITOR  
P.O. BOX 7053  
LEXINGTON, KENTUCKY 40502

NO MORE PRG-7 REVIEWS are available. Supplies are depleted and we believe that six-months is long enough period to offer these reviews. NASWA members will be interested to know that the PRG-7 is available at Sears for \$300, a little more expensive than through other agencies.

LETTERS TO HQ AND TO QSO/NASWA. A number of letters received since the March issue of QRENDX was mailed...several pro and several con. Unfortunately, many of the letters received contained opinions about recent editorials in the Listener's Notebook and in Hot Line, opinions which accented the editorials for their face value without considering there might be more to the story, or at least the management's side. In order to allow all members desiring to offer an opinion, or to revise an earlier opinion, the management is publishing an editorial elsewhere in this QRENDX. Results will be published - whatever the consequences.

McKAY-DYMEK DA-100 ANTENNA SYSTEM still lives! NASWA will shortly have the opportunity to again review the DA-100 antenna system...the shortie vertical element, amplified and fed to your short wave receiver. An earlier review confirmed that the DA-100 was not a good short wave signal antenna. Re-engineering at McKay-Dymek has produced a revised antenna system with vastly improved specifications, with the emphasis on short waves. According to specification curves, the newly revised antenna equals a 100 foot antenna on any short wave frequency, providing from +3 to +11 dB of gain over the 100 foot antenna. We are anxiously awaiting the unit for testing.

AMECO PREAMPLIFIER OWNERS should note the following address for AMECO; it is different from the one given on circuit diagrams enclosed with their equipment. New address: Ameco Publishing Corp., 275 Hillside Avenue, Williston Park, NY 11596. (Al Garrou)

ANOTHER NEAT TOY! WORLD'S SMALLEST SW RECEIVER? You'll need one of those inexpensive crystal earphones which are extremely sensitive and detect a very low voltage signal. You'll also need a 365 $\mu$ F variable capacitor from one of the electronics stores...buy the one which is rather small and encapsulated in the square plastic box. Finally, you will need an 8 to 10 microHenry choke (small current rating) and a cheap Germanium diode. From these, your author constructed an ordinary crystal set delivering from 3 to 10 MHz. At night, I had little trouble with R. Nederland, R. Canada, R. Havana, and Deutsche Welle...all on 49 meters. You'll need a fairly decent antenna. Stations on at the same time may interfere with one another, but the loudest one stands out readable all the time.



**IMPORTANT!**  
USE ONLY A CRYSTAL EARPHONE.  
ORDINARY TRANSISTOR RADIO  
TYPES ARE NOT SENSITIVE ENOUGH.

WHAT ARE PETS, IC's, and MOSPETS? asks Kerry Devonshire. These designations are seen in ever-increasing numbers in specifications for receivers. They are semi-conductors, Kerry...solid-state devices, or diodes, transistors and the like. It all started with DIODES...the little devices which allowed current to flow through them in only one direction; then there are TRANSISTORS which allow amplification (as tubes do); ZENER DIODES are used for regulation of voltage to keep it constant near one level; LEDs (Light Emitting Diodes) glow when biased in a forward direction, so they make good

indicators which use miniscule amounts of current; PBT's are Field Effect Transistors are like old triode tubes, amplifying and offering a good signal to noise ratio; JFET's are Junction FET's, similar to MOSFET's, or Metal Oxide Semiconductor FET's which are like a tetrode tube...a good RF mixer. The Integrated Circuit (IC) is a small chip of semiconductor which contains numerous diodes and transistors, etc., all assembled together for a specific purpose. An IC 2" x 1/2" can contain the complete works of a calculator, a clock, a radio receiver, or any number of other things.

**WHAT TO DO WHILE YOU'RE WAITING.** Patience is the key word. Though many of the more powerful voices take less than a month to return a QSL for your efforts, some stations can really be trying to your patience. Waiting periods CAN stretch out for years. Some DXers have received QSLs from Burma only after several years of wooing various embassies and daughters of high-ranking officers in the military of the concerned country. One DXer even secured his QSL from Surinam after more than 10 years...and the station no longer exists! That's persistence of the FIRST Order! If you haven't got a QSL within, say three months, you may consider it worthwhile to invest in the postage to send another report - a new one if possible, or a carbon copy of the old one with a polite cover letter to explain what you want. It could be that your first report did not reach its destination, or perhaps was lost in the shuffle at the station. Try again....and have patience.

**LISA SHELTON and DORIS NYLLE** skipped school for THREE days to go on a DXing expedition of their own at Kittery Beach, ME. "If boys can do it, so can we," said Lisa, an avid newcomer to the hobby. In a camper trailer, with their DX-160 and SONIC ICF-5900W, Lisa and Doris stayed at the beach for three days; their antenna was about 200 feet of enameled corner wire strung out between two 16 foot cane poles. "It was really super-quiet", said Doris. "No buzzing at all like we normally hear around Durham." During their first experience at a DX-pedition, the girls were introduced to the thrills of pre-dawn DXing into the South Pacific and Asia. "We're only beginners, but it was easy to identify the 4,720 KHz station as Indonesian...they kept saying 'Indonesia' real often," observed Lisa. Congratulations, ladies! I can't give better encouragement to many other members who might like to do the same as you did. However, I'd suggest you stick to the weekends for it.

**RADIO STATION ETLF** in Addis Ababa, Ethiopia was nationalized by the government according to a report on the BBC, first heard 12 March. One wonders if this is the end of the Lutheran Church's voice in east Africa.

**GILPER ASSOCIATES** advises us that their Logbook and Record Sheets are now revised to provide more room for recording program details and incidental information, and a little less room to write in the month and day. Still padded and punched for a 3-ring binder with green ink on a lightly tinted green paper. \$2.50/pad. P.O. Box 239, Park Ridge, NJ 07650.

**ANARC CONVENTION TAKING SHAPE.** Plan NOW to take in the ANARC Convention which will probably be held in the Woodfield Mall at Schaumburg, Illinois, 30 miles N.W. of downtown Chicago. Dates: July 15, 16, and 17. Watch for more information!

**MIKE HOUSE** of Phoenix, AZ says he installed the Murata PFB filters in his FRG-7 as I suggested in the FRG-7 review I included when he wrote for the consumer's reports. How do they compare with the filter offered by GILPER? Frankly, they are not as good as the quality filter they would use, but are better than the filter which comes with the receiver. There are many kinds of filters which could be used, some more expensive, others less expensive. One has to consider the expense, the selectivity desired, and the insertion loss resulting in a lower signal-to-noise ratio. There is a happy medium, though, and the GILPER option seems to be that.

**WESTERN RADIO, Kearney, NEB 68847** for years has been advertising in the columns of electronics magazines...you know, the picture of the palm holding the little radio converter units for use in automobiles. Your editor recently had the opportunity to see one of these units designed for short wave use.

The one I saw was inserted between your car's antenna and car radio. You tuned your radio to a certain unused place on the dial, then you tuned the unit to anything you wanted between 7 and 12 MHz. I think this one was an older model and the frequency response may be different in newer ones. Well, I wasn't too impressed with the selectivity of the unit since close stations were crowded into one another, and only the strongest stations could be heard with regularity. I expect it would do better if the antenna could be tuned. The unit costs about \$25 or so - and, for someone who just can't do without Jerry and Dodie Cowan on a drive late at night, it might be worth it. You'll also need an alternator filter... something like a CBFT-50 by Cornell-Dubelier... to help the noisy whir from your alternator. If you are interested, write to ask about brochures first.

MILITARY SURPLUS GEAR AND OTHER STUFF... can be had for really good prices at the 26th annual hamfest in Dayton, Ohio at Fair Arena, 29 & 30 April and 1 May. A huge flea market is always established. This is a central location for... I guarantee it would be worth the travel if you are in the serious market for a receiver or other useful testine gear. Meet with me there, and let's look over the stuff!

BEST WISHES TO JIM McCLURE of Lexington, KY who suffered a heart attack on March 5th. Here's hoping for a speedy and troublefree recovery. While Jim was hospitalized, though, it was really the services of a portable ICF-5900 receiver that helped him through. It seems nothing can stop some people from DXing! There's a bright side, too. The few alterations in his life-style ought to provide a little more time for doing what he likes best.

BEST WISHES ALSO FOR DAN JAMISON of Columbus, OH area following some shaky days after eye surgery to correct double vision. We knew something was wrong when Dan kept muttering to himself as he sat in front of his EF-600, ..."DXing is twice as good this way." Seriously, though, Dan says he is fully recovered and things are 'looking' fine. While recuperating at home he had to wear a blind mask around a few days. Finding the refrigerator and the receiver were easy enough, but feeling his way to the grocery was hairy.

WRTH 1977, GREEN PAGES, PAGE 28 carries a story by Frank Hennig of EBC's World Radio Club. The story is entitled, "Now - For The Real DX", and he proceeds to delve into the virtues of amateur radio. In several places, Mr. Hennig alludes to the "real DX-ability" of smallish amateur stations versus the rather hum-drum routine of dialing in the BBC and VOA with ease, and then says...."It is one thing to log a 100,000 watt broadcast station at 5,000 miles range, and another to resolve a 50-watt amateur station over the same path." That may well be, Mr. Hennig, but it is a third thing for you log a 200-watt Indonesian with omni-radiated power across an 11,000 mile path. And, that's something even your amateurs can't do!! You failed to mention that a 50-watt amateur beamed signal is very nearly the same as listening to a five kilowatt. And, your 50-watt amateur was very likely tapping out his message in CW, which requires only a small fraction of the power required to push an AM signal the same distance. My point isn't to belittle amateur radio broadcasting - I'm all for that. But, puh-LEEZ don't try to tell me what is real DXing. I know of several feats that would singe your amateur bands.

OSL CARDS will look attractive and lend themselves to easy removal for inspection if they are kept in the NuAce (Ace Art Company) OSL card album. 10-page binder of vinyl sleeves, holds 3 OSL cards per page for a total of 60 cards. Attractive, in a 23-ring binder. \$6.95. Write to Ace Art Company 24 Gould Street, Reading, MA 01867. An old, established company that made the little black corners for mounting pictures in scrapbooks, remember?

COAXIAL CABLE FOR DIPOLE ANTENNAS, should be about 52 Ohms impedance. Most hobbyists know of RG-58/U coaxial cable for this purpose. Less expensive, but just as effective for reception purposes is RG-174/U - also 52 Ohms. It is merely thinner and isn't supposed to carry transmitted RF energy. One brand name is Belden #8216

REGINO RINCON of Denton, TX writes a very interesting letter in which he provides NASWA members with a comparison of the new SONY CRF-320 dream portable and the Panasonic RP-8000. He writes.....

"I was in my country - Venezuela - during Christmas, and I had the opportunity of using the Panasonic which cost about \$2,500 U.S. here in Texas but costs \$7,000 in Venezuela. The Sony was bought in Miami; and here are my opinions of both of them.

"PANASONIC: Very big, heavy & expensive, too. I used it in a building made of concrete and I could hear some Venezuelans and Colombians only about 300 miles away from where I was in Maracaibo. Costa Rica was heard from 1,500 miles. This was about 2115 GMT (5:15 p.m. local). The RF meter read about half-scale on Venezuelan stations, but reception was noisy. If I used the narrow filter, they disappeared entirely. The frame-directional antenna worked well enough, to attenuate close proximity noise. SSB reception was clear and very stable.

"SONY: Used in the same place and listening to the same stations. But with the antenna whip still completely collapsed, the reception was 100 percent better than the Panasonic!! Meter was almost full-scale, and there was hardly any noise! I put up the antenna and all the stations sounded as if local. Costa Rica was unbelievable. The dial was 100% accurate. Stability was perfect. The narrow selectivity filter was never needed, but I tried it anyway - only some attenuation of treble. The antenna trimmer was very good. The CRF-320 is an LED readout dial. When you push LSB or USB buttons the dial changes one KHz up or down, depending on the mode used. It was much clearer and more stable than the Panasonic. A movable needle is used to set exact scale on a known station, say WWV. After that it never needed a touch-up. A quartz-crystal clock is included, and it is a masterpiece of time. AM reception of ECB was somewhat less sensitive than for SW, but still very good. Less heavy than the Panasonic.

In short, I think that radio is excellent, the only "but" is the price... \$1,600.00 plus tax in Texas. However, I would like to know more about it before I make a decision. I would like to see some other's report on it, and would appreciate any NASWA member contact me if he can share information. Regino Rincon, 625 Fort Worth Drive #36, Denton, TX 76201.



**Semiconductors:** 191C • 17FET • 80 transistors • 5 LED  
**Frequency Range:** FM—87.5—108 MHz • AM—530—1625 kHz • LW—150—400 kHz • SW—1.6—30.0 MHz  
**Antenna System:** FM—1 Telescopic antenna plus 75 ohm external antenna terminal • AM, LW—Built-in ferrite bar antenna plus (High impedance) external antenna terminal • SW-1 Telescopic antenna plus 50-75 ohm external antenna terminal  
**Speaker:** 4 1/2" dynamic  
**Power Requirements:** Battery—"D" x 8 (12V) (batteries not supplied), "D" 1 (1.5V) for clock • AC—120V, 60 Hz, 10W  
**Dimensions:** 12 1/2" H x 17 1/2" W x 8 1/2" D  
**Weight:** 28 lbs. 11 Oz. (with batteries) **Color:** Black and metallic gray  
**Supplied Accessories:** Earphone (ME-20H), AC Cord, Shortwave Guide

Thanks a lot, Regino! NASWA members are sure to be curious about this one, but it looks like few are likely to lay out the bucks it will take to own up to one.

Regino has owned several portables, including the R-3000 and R-7000 by Panasonic; the Sony CRF-5100, and the Barlow-Wadley XCR-30. He is presently investigating the possibilities of "slinky-type" antennas seen advertised in current electronics hobby magazines. Also, Regino is building a "C-multiplier" from plans found in Popular Electronics.

A very active member, Regino Rincon. Thanks again for your letter, and we hope others will take yours as an example. We'd like to hear from many more members like this - not only for experiences like Regino's, but for DXing expedition experiences like Doris and Lisa shared with us.

# Listeners NOTEBOOK



(by Diane S. Lévesque)

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

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**ENGLISH SCHEDULES** **AFGHANISTAN** As of 16/3 R Kabul was to move to 15230 from 15195 at 1130-1200. Probably also for other languages at 1030-1300 (BBC World Radio Club 16/3) Right smack dab under Habana, assuring inaudibility(g)

**ANGOLA** RNA observed 1/2 on 11955, not 9535, abruptly 1155\* (R. Glnbey, Azania, SCDX 15/2)

**ANTIGUA** DW 0530-0550 on new 5955 ex-5960 (Richard Wood, NY, 7/3) Not when I checked it (gh)

**ASCENSION** Tho in BBC skeds 15260 for M77 shows only at 2000-2115, in fact it runs to 2245\*, and 9580 opens at \*2300. 6140 ex-11815 at 1800-2030 to southern Af eliminates our good back lobe reception except when MUF allows 24560 (4th harmonic) to propagats, ex-23630, 2nd (gh)

**AUSTRALIA** Among RA's M77 changes is the reactivation of 13m after several years' silence: 21570 at 0800-1000, 100 kW from Carnarvon. Frequencies used during all or part of the 0300-0900 period after the NAm beam closes, but often better heard are: 5995/9515/9540/9570/11740/15140/15160/15240/15320 to Pacific in much the same direction as NAm; also 15355 to EAs/NWFacIs/PNG: 9760/11790 to PNG; 11705/15410/17870 to S&SEAs: 11935/15290 Af: 9570/11740 E&Brit (via Henry Durant, MD)

<b>AUSTRIA</b> CRF M77	0330-0400 NAm 303 9770	0830-0900 NE 123 15410	1230-1300 SWEu 11790
0130-0200 NAm 303 6155	0430-0500 WNAm 320 6015	SEAs 90 17850	SEAs 17775
NAm 303 9770	SEAs 90 17840	EAs 56 15105	1830-1900 Eu ND 6155
0330-0400 NAm 303 6155	0830-0900 Eur ND 6155	Eur ND 6155	Eaf 155 15335
		Eur ND 9770	Saf 175 17770

(via NASWA HQ; Durant, MD) NE 123 9690

**AZANIA** Radio RSA M77 1300-1456 C&Eaf 15220 (No mention of  
0256-0426 Eaf 7270 5980 3995 1300-1450 C&Eaf 11900 (Sa/Su -1550) Antarctic xmsn)  
0556-0650 Waf 17780 15220 11900 1556-1650 Eaf&ME 21535 11900 7270 (via Henry  
1056-1158 C&Eaf 21535 15220 11900 2056-2150 Waf&Eur 11900 11800 9585 7270 Durant, MD)  
1300-1456 C&Eaf 21535 (Sa/Su -1550) 2226-2320 NAm 11900 11800 9585 5980 1/3)

**BANGLADESH** Slow news 1900-1915 on new 6070 and 9580 (Reiff, GFR Longworth-Dames, UK, SCDX/

**BELGIUM** ORU has apparently abandoned the standard first-Sun in Mar/May/Sep/Nov sked change dates. One sked is valid 6/3 to 3/4 (0015-0045 to NAm on 9725), and another is valid 4/4 to 24/9, on 6080 (via NASWA HQ) However, I think they stayed on 6080 in March (gh)

**BULGARIA** R. Sofia changes to WRTVH 77 include Waf 2105-2200 on 9530 ex-9560 (Wood, NY, 7/3)

**CANADA** RCI made a number of last-minute sked changes, making parts of sked in March LN incorrect before it ever went into effect. Here is the version issued 22/2: (D--Duventry, UK)  
1400-1415 Af 17790 1800-1830 Af 15325 2030-2100 WEu 15325 0200-0230 N&CAm 6000  
15325 1900-1930 Af 17820 (below is at 11855 0300-0330 N&CAm 9655  
1400-1500 Eu D6195 Sun 15325 2157-2400 as D 6145 9535  
1530-1600 EBU D11935 1930-2000 WEu 15420 from 25/4) D 5995 6000  
D 9555 (SPac xmsn 11855 2257-0100 M-F 5960-NAm 5960  
1645-1700 Eu 17820 was dropped) D 5995 0100-0130 S/m 11940 0400-0430 N&CAm 9655  
15325 D 5955 N&CAm&Crb 9535 5960  
1800-1830 Af 17820 2030-2100 WEu 17820 0200-0230 N&CAm 9535 (via Ian McFarland, RCI)  
RCI's Canadian Armed Forces Service previously heard at 2200 on 5925/9445 was dropped during February. This appears to be part of a continuing cutback in RCI operations (Wood, NY, 24/2)  
Programs to the Canadian forces in Europe are no longer being fed via SW (McFarland, RCI)

**COSTA RICA** R. Relej gives a full ID in English at 0725 on 4832 (Bahn, UK; Gau, GFR, SCDX)

**DOMINICAN REPUBLIC** R. Clarin's 2330-2400 pgm formerly Mon-Fri is now announced as Non-Sat (SWNS) Except when it isn't, hi. 11700 off lately, and 4850 badly hatted (gh 19/3)

**FINLAND** RF to NAm at 1330, 1430 on 15105 ex-15110, better BBC-co than HCJB splash! (gh 19/3)

GERMANY WEST A DW English programme is broadcast from Antigua at 1300-1320 on 9605 for listeners in Nam (BECMS 3/2) Baloney; this must be a 'list-logging', as anyone who troubled to monitor would have found it in German; could it be that even Cologne thinks it's Eng? (gh) DW M77 to Nam, no sites given, 0130-0150 on 6010/6040/6075/6100/9565/9605/11865; and at 0530-0550 on 5960/6100/6185/9545 (via Henry Durant, MD) See also ANTIGUA, LN-1; GERMANY, LN-6 (gh)

HUNGARY R. Budapest's fq change date is 17/4, to remain valid until 29/10. New fqs under: 1030-1100 D. Aus&N&Japan 21525 17715 15160 11910 9585 7155 (see also DX PGM, LN-1200-1240 Mon-Fri Eur & Scandinavia 21525 17785 15160 11910 9585 7155 6450  
1430-1500 Mon-Fri Asia 21525 17785 15160 11910 9585 7200 0300-0330 D Nam same as 0200  
2130-2200 D. Europe 17780 15415 11910 9655 7200 9250 5965 except 17720, typo?  
0200-0230 Tue-Sun Nam 17710 15225 11910 9833 9585 9225 6000 (Budapest International 4/77)

ISRAEL Mar LN-2 correct except at 0500 11960 not 11655; 1200 17815 not 17685 (Magne, PA) HGJB on 11960 right up to 0500\*, whew, close shave (gh)

JAPAN NHK M77 Regional svc 0130-0230 N&Lam 17825 15420 15195 11840 0930-1030 ANZ 15235 11875  
2015-2045 ME&NAF 9700 7250 0800-0830 Eu 15325 11960 1115-1145 SEAs 11875 9675  
2345-2445 Nam 15270 11800 1830-1900 Eu 9605 7195 1630-1700 SAs 11705 9670  
General Service 15 min on the hour exc. 30 min at 1000, 1400, 2300. To Nam on 15105 at 2200  
-0315; 9505 at 0400-0715, 1900-2115; 5990 at 0800-1815. To Asia on 15195 at 2200-0015;  
17880 0100-0715; 15195 0800-1030; 11815 1200-2115. To Europe 9585 at 1000-0515; 15310 at  
0600-0915 (R. Japan Official schedule via Yoshiaki Hayashi, FE DX Review 25/2)

KOREA SOUTH (Cf Mar LN-2) Well, here's another R. Korea sked with changes; half hour pgms  
0300 9675 9640 1130 11860 9665 7150 1600 9640 7150 2000 9720 9665  
1000 9580 9525 7150 1330 11860 1800 9720 2300 9640 (BBC WRC 23/2)

MALAYSIA/SINGAPORE BBC will soon be, if not already, in process of transferring FE Relay xmts from Malaysia to Singapore; and I suspect we will have no way of knowing, as BBC will not tell us, which site is used on any given date for any given transmission; M77; (gh)  
17880 0900-0945 11955 1600-1830 9670 0900-1130 7180 1645-1830 3915 1500-1830  
15435 2300-2430 2200-2430 9590 0000-0030 7120 2200-2430 Some frequencies  
15310 0900-1615 11750 0900-1615 9580 2200-2315 6195 0900-1830 are used simultan-  
15280 0900-1130 9740 0900-1830 9570 2200-2430 2200-2430 eously elsewhere

MONACO (FRANCE) TWR \*0725 Sun on 7110 not 7105 (Wood NY, 7/3) Cf Mar LN-2 (gh) MONGOLIA LN-8

NEPAL RN has new 100 kW xmt on 7105, with 5 kW on 5007 and 100 kW on 3424 sked with Eng at 0220-0230, 1435-1520 (BECMS 24/2) Additional English newscasts have been added at 0620-0630, 2250-2300 (Ontario DX Association, via HGJB DX Party Line 26/2)

NEW ZEALAND RNZ M77 remains about the same, to Pac: 1800-2015 9770. 1800-2450 11960. 2030-0700 15130. 0100-0630 11705, 0645-1030 6105. To Aus: 0730-1030 6105 (Cushen, NZ SCDX 15/3)

OMAN Muscat on 11890 has English at 0900-1100 with news at 1030 dally (Lundqvist. SCDX " )

PHILIPPINES FEBC 1/77 sked follows that in WRTVH 77 closely except 1100-1130 shows no English, but Tagalog on 11855/7225 and Tribal on 15300/9505; and 17810 running to 0600 not 0100 (via BECMS) What? You have no WRTVH 77? It's essential as a point of departure (gh)

POLAND Warsaw's traditional 7270 was omitted from WRTVH 77 but is still observed in full use, e.g. in Polish/English to Nam 0200-0400--the best freq for Nam service now (Wood, 7/3)

SIERRA LEONE SLBC new sked: 0600-0745, 1800-2355 on 3316; 0800-1030, 1200-1745 on 5980 (Geoff Cosier, Victoria, via Mike Willis) Not all English; some vernacs, French (WRTVH 77)

SPAIN RTVE seems settled back on 11880/6065 after testing 6080; and 6140 1/3 at 0100-0400 (John Wegener, IL)

	12 1/2	15305 Nam	295 K	16	15240 ME	115 H2	23	6045 Nam	310 H2
<u>SWEDEN</u>		21680 ssb	110 H	18 1/2	6065 Eur	260 K		9695 Nam	310 K
11		21690 Af	180 H1		11780 Af	195 H2	00 1/2	6045 Nam	310 H1
		*15305 ANZ	70 H2	14	15240 Af	165 H1	02 1/2	6045 Nam	310 H2
		*off some Mondays			15305 Nam	310 H2	21	6065 Eur	260 K
		21680 ssb	110 H		17795 SAs	100 H1		9605 ME	145 H2
		21690 Af	180 H1	16	6065 Eur	260 K		11845 Af	180 H1
12 1/2		11735 EAs	55 H2		9665 Eur	100 H1	23	6120 Nam	295 H1

Perhaps out of spite for sacrilegious R. Sweden Saturday Show, HGJB now broadcasts in Swedish at 1400 on 15310, severely splattering onto 15305. Should R. Sweden choose to move, I have recommended 15215 or 15365 as the clearest alternatives on 19m. Week of 13-20/3, RS tested old 100 kW on 6105 to Nam at 2300 // 6120, but 6105 useless under jamming, QRM (gh)

SWITZERLAND (Cf Feb LN-4) Besides the 7210 xmsns, ICRC also sked Tue & Thu of active week at 0945-1015 on normal SBC freqs beamed on ME & Af. In March, 22/3 English 21520/15305/11775/9560, and 24/3 Eng & French but on 21520/17830/15430/15140 (BBC WRC 16/3) Presumably same sked in May, but frequencies may have altered (gh)

TAIWAN (Cf Mar LN-1) BCC to Nam is 0100-0200 9765/15345/15425/17890; 0300-0350 15945/17890; 2140-2240 9685/17890. To ANZ same times 11825 (Legge, VA, 12/3) Last is ex-1700 (SCDX 15/3)

VATICAN (ITALY) Vatican Radio to NAM 0100-0115 5995/6015/9615/11700/15200 (Martin K. Alintuck, MA, 25/2) I assume for M77. Gotta watch those Rome skeds, Martin, they're in CET (gh)

VENEZUELA R. Nacional's peripatetic English pgm noted 10/3 from 2205 tune to 2229 closing, actually on the frequency announced:--15400 (gh) Varies 15400.1 to 15400.9 (Pitt McNeil DC)

## OTHER SCHEDULES

ALBANIA R Tirana has introduced a new language, Turkish, 0300-0325 on 7300, apparently coinciding with new transmitters--up to four simultaneously ex-three, e.g. Albanian to NAM 0200-0225 on 6200/7300/9780/9790 (Richard E. Wood, Adelphi Univ, LINY, 24/2)

ANTIGUA DW using new 15385 2130-0105 Port/Sp ex-9590, and 15410 2200-0150 German ex-9680 (Roger Legge, VA, 12/3) Ignoring Mexico's right to 15385; 15410 is ex-K1gn11 at this hour(gh)

BRAZIL R. Guaniba \*0900 on both 11785/5965 (Mike Willis, Vic., 2/3) Not at 2100, 1800 as in WRTVH 77, then (gh)

BULGARIA Changes to R. Sofia sked in WRTVH 77 observed: S-C 0500-0530 weekdays 7115 ex-7255, //6070/7670. At 0530, 7670 HS relay in Bulg., time not given in WRTVH. Turkish weekdays 0530-0600 on 5915/7115. At 0630-0700 also on new 9530 (Richard Wood, NY, 7/3) See LN-4

CAMBODIA Phnom Penh on 9695 to 0100\* and on 11938 at 1200, latter //4907 (Willis Vic, 2/3)

CHINA PLA II, 3900, noted as early as 1140 //3400, not \*1215 as in Tropical BS (McNeil 13/3)

CHILE This time BECMS seems to have monitored La Voz de Chile before issuing a schedule. so I believe it is more accurate than the WRTVH 77. Freq usage: 0930-1410 15150/11810/9566; 1730-1930 15150; 1930-2330 15150/9566; 2330-0250 9566; announced 6195 unconfirmed. See below  
0930 E 1050 E 1210 E 1330 E 1810 G 1930 G 2050 S 2210 I 2330 A 0050 F 0150 F  
0950 S 1110 S 1230 S 1350 S 1830 I 1950 I 2110 A 2230 F 2350 R 0110 E 0210 E  
1010 R 1130 R 1250 R 1730 A 1850 A 2010 F 2130 R 2250 E 0010 G 0130 S 0230 S  
1030 F 1150 F 1310 F 1750 R 1910 R 2030 E 2150 G 2310 S 0030 I. (BECMS 2/77)

FRANCE On 7/3 RFI began a new Portuguese service daily 2115-2215 on 7215/5980; however as of 17/4 will be an hour earlier due to DST in Portugal (BECWRC 16/3) It's 18/3 (SCDY 15/3)

GERMANY EAST RFI Arabic 1900-2045 on new 11700. Do not confuse with Baghdad Arabic 11700 at same time (Wood, 24/2) French to Wf 1915-2000 English 2000-2045 list 11975 but on 11980 (Wood, 7/3) CHILE (more) Still on 15150, 22/3 0315 E, 0335 S (gh)

HUNGARY Budapest Turkish 0700-0900 Sun on new 6045 ex-6150; //7215 (Richard Wood, 7/3) It's 6040, also applies to Greek, German, Hungarian, English, Italian 0700-1300 (BECMS 3/2)

IRAN R. Iran HS announced as: 0430- 15315 to Gulf; 0600- 15084 Eur/Am; 0630-1630 17730/9022 to Am/NAm; 1900- 7215 for Iraq, Syria (BECMS 3/2) 11735 1930-2400 to E&C is confirmed but C&W 1630-2040 is on 9780 not 9770 as announced (BECMS 17/2)

IRAQ R. Baghdad HS Arabic main pgm on new 7115 from apx 1145 to 2320\*; 3952 now with Voice of Masses 1630-2030 ex-1930; main pgm 2030 ex-1930; 6155 silent 1730-1915 ex-main pgm (BBC MS 3/2) And also silent on 6155 0255-0800 (BECMS 17/2)

LAOS Xieng Khouang 5440 ex-6693 since late Jan hr 1200-1400\* in Lao (and in Meo 1330-1400) //4602; relays Vientiane 1200-1300 (Isao Ugusa, Far Eastern DX Review)

LIBYA Holy Qu'ran and Hadith (Prophet's Saying) Radio was to start at beginning of March a daily one-to-two hour pgm to Af/Eu, in English and French twice daily "from 0600 until 2200" (sic) on MW and SW, and Italian may be added later (BECMS 17/2) No fqs; anyone hrd? (gh)

OMAN Muscat in Arabic sked 0200-0700 11890; 1100-1315 11890; 1400-2000 6174 (Lundqvist, SCD)

PAKISTAN Considerable seasonal changes to R. Pakistan, M77 compared to WRTVH 77:  
0045-0200 Nat'l Pgm for Burma 11750 1645-1745 Urdu 6115 7085 (1 e. Farsi, gh)  
0100-0245 Bangla 9645 11885 1715-1845 Arabic 7290 9460  
0200-0245 Indonesian 15325 17665 1800-1900 Turkish 7085 9445 (not same as Turki)  
0230-0245 Slow Eng, FE 17830 21590 1900-2000 French 7150 9460 ex-7085/9445  
0300-0345 Swahili 15325 17830 21590 1915-2145 WS for UKOGBANI 7085 9445  
0345-0430 Gujrati 15325 17830 21590 2345-0045 WS for SE Asia 7195 9645 11750  
0500-0815 WS to ME, India, Eaf 11672 11885 15325 17750 17830 21570 (PBC via Legge)  
0830-1000 Hindi 11885 17750 But is using 15115 stead 15110 at 0830-1115 (BECMS 17/2)  
1000-1045 Tamil 11885 17750  
0830-1100 WS - UK 15110 17665 R. Pakistan HS noted on 4020 at 1300-1500. Gd level  
1100-1115 Slow Eng, WBU 15110 17665 but Peking QRM; R. Pak also had Urdu nx at 1500 on  
1100-1200 Burmese 17800 21590 both 3240 and 4790. 4790 used to run Bangladesh.  
1115-1315 Bangla 11885 15520 Pakistan HS also on 4733 at 1300 past 1400  
1215-1315 Turki 7165 9690 (Mike Willis, Victoria, 2/3)  
1330-1630 WS to ME 7290 9460 11885 R. Pakistan in English on 3240 at 1700 // 3215 after  
1630-1645 Slow Eng, ME 9460 11885 having been on 4790 a week before, so assume they've  
1400-1700 Afghan Persian (Dari) 3965 changed frequencies (Gib Junqun, Osaka, Japan)

**PHILIPPINES** R. Veritas has 3 xmters of 50, 100, 300 kW; freq sked at one point was:  
 0000-0030 Sinhalese 15280 11875 1230-1300 Indonesian 15260 11800 11780  
 0030-0100 Std. Chin 15280 11875 9675 1230-1300 Japanese 9645 (4 xmters? gh)  
 0100-0130 Japanese 9675 1300-1330 Thai 15260 2130-2200 Japanese 9675  
 0100-0200 English 15280 11875 1330-1400 Sinhalese } 15260 2200-2300 Vietnamese 9675  
 0200-0230 Tamil 15280 11875 1400-1500 English } 11780 2300-2330 Indo } 15280  
 1100-1130 Std. Chin 15260 11800 9645 1500-1530 Tamil } 9645 2330-2400 Thai } 11875  
 1130-1230 Vietnamese 15260 11800 9645 (BECMS 1/77) } 9675

**SPAIN** RTVE now on 9530 ex-9520 Spanish 2145-2300, rest same: 11965/11945/11880/11775/9630. For M77 (John Wegener, IL)

**SWEDEN** Besides SSB as on LN-2, M77 sked with HS pgm I: 0500(Su/Su 0630)-0800 on 17775 80°, 1400-1800 21690, 170°, 1800-2000 15190, 250°, 2000-2130 11770, 250° (RS) USB 30 kW Hörby(BEC)

**USA** WJNB M77, to Bu: 1700-2000 17775; 2000-2100 15305; 2100-2245 15185; to S/m, 2245-2400 15175; 0000-0100 11905 (Gerry Bishop, PA) Cf Mar LN-3; here's the rest of WYFR M77:  
 9690 21-23 Sp Bu/NAF 15160 16-20 En NAE/Eu 17845 12 $\frac{1}{2}$ -14 En Bu/NAF 17865 16-17 Ge NAF  
 1780 20-23 En Bu/NAF 20-21 Ru NAE/Eu 16-17 En WAF 17-17 $\frac{1}{2}$  Ar NAF  
 11815 21-23 Sp Bu/NAF 15440 16-18 En Bu/NAF 17-17 $\frac{1}{2}$  Ar WAF 17 $\frac{1}{2}$ -18 Fr NAF  
 11945 20-21 Ru Bu/NAF 18-20 Ge Bu/NAF 17 $\frac{1}{2}$ -18 Fr WAF 18-20 Ge NAF  
 15110 12 $\frac{1}{2}$ -16 En Bu/NAF 20-21 En Bu/NAF 18-21 En WAF 17875 14-20 En NAF  
 Before 1600 are weekends only (Greg Watts, IN, SPEEDX 3/76) Ex-Sunday only? (gh)

**VIETNAM** Hanoi on new 4680 and 4945 with HS // 10060, 1300-1600, also 3999. Vlet Bac now on 4100 to 1400 (Mike Willis, Vic, 2/3) New stn since late Jan first on 4670 but since 1/2 on 4680 observed 1015-1530\* is tentatively IDed as "Voice of the Government" in Huế--the H is pronounced--City; relays Hanoi HS-I at 1015-1300, 1330-1500 (Isao Ugusa, FEDXR) Daily around 1320-1325 sounds like a local dialect (Naoyuki Tsukamoto, FEDXR) On 4696, Quang Ninh Broadcasting Station is name ex-Q N. Provincial Stn, IDs in Viet. sked \*1200-1230\*, \*1300-1330\* (Isao Ugusa, Japan, FEDXR) 17-20/2 HS-I and HS-II were parallel for Tet (Ugusa)

## MISCELÁNEA RADIAL

**ALGERIA** RTA on 12320 with typical Kabyle mx. 11/3

2138-2201\* as sked on 6160 where just QRM, hets: here

SIO 152; list 50 kw, and also in Berber; first reported by Noël Green, WRC (gh)

**ANDORRA** R. Andorra at last heard here by Geoff Cosler 28/2 on 6230 at 0800, pops and annts; tnx to Geoff I heard it too at the same time (Mike Willis, Victoria) LP via Panamá Canal (gh)

**ANTARCTICA** I had the great pleasure of stumbling across AFAN 6012 12/3 1035-1059 lost; very pleasing--hets from 6013.3 and 6010 didn't cause too much trouble at first, either (Pitt McNeill, DC) Hrd around 0845; expected to shift to 7215 during March (Cushman, SCDX 15/3)

**ARGENTINA** Here's a strange. R. El Mundo, B.A., hrd on 18670 2232, 2330 3-pip TS, full ID w/usual SW freqs only; SIO 142; parallelable to hetted 15290; on AM, and not harmonic (gh)

**ASCENSION** 6140 1800-2030 to SAF has not been running full power due to aerial damage (BEC WRC 2/3 repeated 9/3) Well, it does OK on 24560, cf LN-1 (gh)

**AZORES** (?) A relay of the RDP DS Pgm-I from Lisbon observed recently on 4865 from apx 1830--the start varies day to day--until about 0100 is intended for listeners in the Azores, per info from the radio's technical department (BECMS 17/2 headed PORTUGAL) \*1938 13/3 mid-song. As far as I know there has never been any programming other than RDP Pgm-I. About 1 $\frac{1}{2}$  months ago, they gave Ponta Delgada site along with 12 or so MW sites, but in past month have dropped all mentions of Azores. Isn't it strange no one who has reported to Azores has gotten a reply while reports to Lisbon have been answered? (Pitt McNeill, 13/3) If it were on in the mornings it should be possible to tell Azores from Portugal by difference in fade-out times due to the hour or so difference in sunrise times. Let's all request a morning xmsn! (gh)

**BISSAU** 4780 never mentions Guinea-Bissau, just Bissau; has French and Spanish clandestine pgms (Pitt McNeill) "R. Bissau" at s/off 2359 (Bill Whitacre, MI, TDXN) More in GLAND, LN-8

**BOLIVIA** R. San Matías is a new stn hrd since 4/2 between 4480 and 4510 (Alejandro Dopeso, Uruguay, SCDX 1/3) Hey Tony, where's your new list? (gh)

**BRAZIL** RNB's new address is C.P. 04/0340, Brasília (RNB DX 4/3 via Wegener, IL)

**BULGARIA** R. Sofia has much modified its sked, possibly a direct result of the cessation of the R. Iran Courier broadcasts (see GRANNY, LN-8) which freed three Bulgarian xmters during the afternoon/early evening period (BECMS 17/2)

**CAMBODIA** P-P 4908v, noted often after 2305 at fair-good strength, fading 2325, best on 11/3; also tent. on 11937 $\frac{1}{2}$  at 1240 in bad het w/Brazil 11937 (Pitt McNeill, DG)

**CENTRAL AFRICAN EMPIRE** C.A. Republic became an empire when Col. Jean Bedel Bokassa proclaimed himself Emperor 4/12; the country since then is called Ubang Shari, and Bangui-5038 is "La Voix de l'Empire Centrafricaine" 2300\* (Jacques Augustin, Michel Förtig, Kai Strehl, SCDX 22/2) I read somewhere it was politico-religious opportunism, maybe temporary (gh)

**CHINA** R. Peking's backward Russian makes news: Chicago Tribune 6/3 via Chuck Neff, IL: As usual, the press omits the most important details for us: when and where to tune them in! The latest BBC MS sked shows 4 different sites used at 0300-0355; 1) SSB 17490/8425/8260/6995/5220. 2) 15635/15360/15080. 3) 15670/15350/15300/11600. 4) 15255/15115. This is determined by identical programming but a few seconds apart on different freq. groups. Also from one site at 0900-0955 on 8260/5220; and at 1830-1925 on 6550/5420. Here's the tall of the story missing at right, from The Birmingham News, 13/3 via Tom Overcamp, SC: "The time, to decipher it," Curry said. "That seems to be the most logical explanation, but I wouldn't want to go out on a line and say that is the reason."

Some possible explanations are whimsical. Since Chinese is written right to left, perhaps the engineers get confused with the tapes. But for 10 years?

Maybe they are messages to secret Chinese agents. But then why do the same tapes run normally at other times of the day?

Queries to Peking Radio and to Chinese embassies have been met with inscrutable silence, so the Sinologists can only keep guessing.

Any reasonable theories welcomed.

No doubt for the benefit of Chinese cultural representatives abroad who tape the programs for Russian emigrés with no fast forward or rewind (gh) R. Peking 4960 1800-1855 is ISB feeder with USB English, LSB German. (Mr. K Ushigome, JDX, via FEDXR 25/2) Forwards (gh) **COLOMBIA** Tape of HJAX-3100 on RN Sp. DX 8/4(gh)

**CHILE** Speaking of feeders, R. Nacional de Chile on npx 14355 RGSBB with Copa Chile futbol coverage and ads, 12/3 2320, mentioning a national network, SIO 333 (gh) on 9860 at 0100, R. Nacional de Chile, news, ID. Not 2 x 4930 as I checked 4930 and found without Chile. Glenn? Is this a ute relay? (Alan Laves, TX, 4/3) More likely so if SSB; your report in TDN didn't say. I guess you're sure it isn't the BBC Spanish feeder I hear on 9859, just mentioning RNCH? Not hearing Chile on 4930 doesn't prove anything, as if a harmonic it would propagate independently of fundamental. But 60m is not a Chilean band despite WRTVH 77 listing of Colo-Colo on 4885, which I think also was a feeder (gh)

**DOMINICAN REPUBLIC** R. Clarin offered 10/3 to record Dominican music or the like on DXers' reception report tapes and return them thus renewed to the sender (gh) LV del Progreso, at good level hurting WWV, on 2500.3, around 2330, 2 x 1250v (Terry Kruger, FL, 13/2, TDAN)

**ECUADOR** HCJB has xmtr problems. 21/2 2015-2130\* to Eu supposed to be on 15300, actually on 15299.6 with spur on 15382.3, so loud that I found the spur before the primary. Plenty of 400 Hz hum on both (Dave Walcutt, IL) That's nothing compared to 26/2 at 1950 when 15300's audio could be heard through the 19m band, peaking around 14920/15080/15385/15540/15725. not unlike Habana-15230 sometimes does. Relatively rare are HCJB harmonics, exact multiples so I feel privileged to have heard them on 18150 12/3 2229 Spanish ID. SIO 242. 3 x 6050 (gh)

**ETHIOPIA RADIO VOICE OF THE GOSPEL WAS NATIONALIZED** 12/3. making news on many other SW stns RVOG has been nationalized by the Marxist Ethiopian government and renamed "Radio Voice of the Ethiopian Revolution" (Toronto Cable TV news teletype via call from Michael Bolitho) Addis Ababa radio announced that the Ethiopian government has taken over a gospel radio station operated by the World Lutheran Federation and heard by millions of listeners throughout the Third World. The station, established during the reign of the late Haile Selassie, has run into trouble with the new military rulers who are controlling news output and seeking to have religious material reflect the increasingly Moslem policy of the government (R. RSA news item 12/3 via Kim Andrew Elliott, MN)

The reason cited in the report from South Africa is the station's "counter-revolutionary activities". BBC and R. Nederland report that at least 300 people have been murdered by the military for opposing dictatorial rule in the country--in the past week! (Jim Conrad IA)

Addis HS said a 1961 agreement between the WLF and the former Ethiopian government has been abrogated, and the station is now run by the Ministry of Information and National(more)

## Better run that by us again, Radio Peking!

By James O. Jackson

London correspondent  
Chicago Tribune Press Service

**LONDON**—Three times a day, seven days a week, Radio Peking broadcasts a 55-minute program of news in Russian to the Soviet Union.

Each program contains the usual diet of news, commentary, and anti-Soviet propaganda and is quite ordinary in every way but one:

The news programs are backwards. To the utter bafflement of Western Sinologists, the taped programs are running in reverse, producing a garble that must be deciphered by recording the sound and rerunning it backwards.

**LINGUISTS** at the British Broadcasting Corporation monitoring center outside London have been hearing the backward broadcasts for about 10 years. So far, nobody has suggested a logical explanation, they said.

"As far as we can tell, the backward broadcasts are exactly the same as programs run normally at other times of the day," said John Curry, one of the BBC listeners. "It seems that they just run the tape around and put it through again in reverse."

He said the broadcasts began during the cultural revolution 10 years ago and they have continued at a rate of three per day ever since.

**CURRY** and others at the monitoring center offered some theories, none very convincing.

"There was the suggestion that engineers at Radio Peking ran a tape backwards by mistake," Curry said. "Then, to save face they kept on doing it so it would appear that they had done it intentionally. Doesn't sound very likely to me."

There was another theory that the reverse Russian is intended as a subtle insult to China's ideological enemies in the Kremlin. If so, the idea has left the Russians unperturbed.

**ANOTHER POSSIBLE explanation** involves Soviet radio-jamming equipment, to blot out unwanted broadcasts from foreign lands. The Radio Peking backward broadcasts, however, are not jammed by the Russians.

"It is thought that the Russians are willing to allow the backward programs because there are very few people who would have the equipment, or take the time, to decipher it," Curry said.

ETHIOPIA (continued) Guidance as the "Voice of Revolutionary Ethiopia". It broadcasts only to Ethiopia and nearby countries on 7180 and 6015, monitored at \*1500-1700\*, 30min each in Amharic, Arabic, English, French (BBC World Radio Club 16/3)

RVOG had been in operation since 1963. The 200 ETLF staff members in Ethiopia were invited to stay on if they sign contracts with the government. Anyone not supporting the new government risks being considered a counter-revolutionary (RCI news 13/3 0109 via gh)

During the preceding week, the U.S. cut off aid to Ethiopia due to human rights violations (PBS World Press 13/3) But RVOG was run by Europeans, not Americans, so this is not likely a direct reprisal. Its HQ remains at Geneva, Switzerland. The fait being accompli, let's hope they reactivate some of RVOG's higher frequencies where we can hear them! (gh)

GERMANY WEST DW IS, talk \*0125-0140\* on 4880; What gives? (Neal Perdue, AL, 8-9/3, TDXN) DW SSB feeder on 4882.5 in English 26/12 at 0150 on USB (Sven Schreiber, GFR, DSWCI SW News)

GUAM On 6/2 on 11850 under VOA a station with English lessons with Chinese translation, concluding at 1426 (unID from Martien Groot, Holland, SCDX 15/2) It is the new TWR on Guam (Jörg Klengenfuss, GFR, SCDX 8/3) I doubt it; see FUTURE PLANS, LN-7 (gh)

GUINEA Conakry has been heard mentioning 15070 kHz! But Caversham only hears it on 9650/7125/4910 which are the announced parallels, thank God (BBC WRC 16/3)

INDONESIA R. Khusus Bandung is a new stn on 6100 at 1015-1150 (Craig Tyson, W.A via Cushman R. Nederland 4/3) New unID hrd 1200-1400 on 3252. Listed Mernuke but this RRI one did not ID as that. Other unIDs on 3507/4666. 4163 definitely in Sumatra. RRI Banda Aceh is on 3905 at 1300 (Geoff Gosier, Victoria, via Willis 2/3)

KOREA NORTH DS of KCBS and R Pyongyang was partially exchanged using frequencies, checked at 1100 and 1600 27-28/2; KCBS on 2300v Hyesan, 2670 Sariwon, 2697 Chongjin, 2747 Sinuiju. 2767 Pyongsong, 2776 Hamhung, 2850, 3015, 3033 Wonsan, 4273 Kanggye, 11350. R. Pyongyang, Net-A on 3320, 6250. Net-B on 6400. Formerly, Pyongsong on 2765v was transmitted local pgn only at 1100-1110, but now this channel used thruout xmsn 2000-1800 (H. Nagase, FEDXR)

KUWAIT Add Kuwait to countries operating out of band broadcasts. RK on 12085 heard by Mags in the clear until around 2100 6/3; I heard it next day at 1700, English (Jim Young, CA, TDXN) RK Arabic on 21604, ID at 1357, SIO 344; on another hour at least (gh)

LEBANON Prime Minister Sallm al-Huss said his govt intends to close all commercial and political radio stations which started operating in 1975-76, per a report broadcast by Aman radio on 28/1 (BECMS 3/2) R. Nederland reported in late February that the Beirut studios of TWR had been occupied by hostile forces. They had already been closed 18 months earlier (Richard E. Wood, Ph.D., Adelphi University, LINY, 24/2)

LIBYA Per sked received from the People's Revolution Broadcasting Company, they're using 6185 and 11255 but not 9565 any more as in WRTVH 76 (ODXA via DXPL 26/2) Somehow, "People's Revolution" and "Company" don't quite fit together, ... (gh)

MALAGASY RN's relay at 2000-2120 on 11730 is now 'officially' beamed to Waf, ex-Europe (John Wegener, IL) Not per my 'official' sked, showing Af and WEu (gh) HS listed on 4985 is measured on 4981 (Victor Goonstilleke, Sri Lanka, 21/2. Union of Asian DXers)

MAURITIUS After two years, Forest Side is back on 4850.2; BBC news 1800 (Goonstilleke, " )

MONTSERAT I have info from Continental Electronics that they installed a 50 kW HF xtr on Montserrat for DW. This backs up WRTH 77 listing of relay stations for BBC and DW on both Antigua and Montserrat (James Wilson)

NEW ZEALAND Broadcasting debt will be wiped out by the government. Radio broadcasting corporations must restrain expenditures, must operate within incomes; corporations must get new incomes. This doesn't mean necessary cuts in broadcasting. (Peter Fry, on RNZ news 0612 13/3 via George J. Poppin, CA)

NICARAGUA It took a polio outbreak in Chinandega and León departments to reactivate Rdif. Nacional, noted Sun 20/3 at 1408 on 5945 with speech by the Minister of Public Health on a vaccination campaign for ½-to-6 year old children. Also on 21/3 around 0100-0200 (gh)

NIGERIA (Cf Mar FRENEX-50) 7145 NBC stn is at Ilorin, \*0428 with IS. local ID. pgn summary, religious talks in English and lang; strong (Pitt McNeill, DG) Another new site is NBC Jos on 5965, also \*0429 with English ID (Alan Laves, TX, 1/3, TDXN)

PAPUA NEW GUINEA etc. Recent QSL from R. Madang notes name changes: R. Kerema is now R. Gulf; R. Western District now R. Western; R. Wewak now R. East Sepik; R. Bougainville now R. North Solomons; R. Rabaul now R. East New Britain. Correct address for R. Madang is: NBC, R. Madang, P O Box 2036, Yomba, Madang Province, P/NG (Jim Ronda GLDXA Newsmemo 18/2)

PERÚ R. Nacional de Tacna at 1800 27/1 was observed on 9530. Had not been heard on that channel since 28/8/76 (FBIS via BECMS 3/2) V. LN-10 (gh)

PHILIPPINES (Cf Mar LN-9) DXH-2 was discovered by JADX member Kouji Uenohara. It is heard irregularly, evenings on 7280 tho announcing 7286, asking for reports. Old list shows 500w Mindanao BS stn; maybe martial law BC restrictions eased (Uenohara & Hayashi, FEDXR)

**PORTUGAL** The German name for Vox Fidel is "Stimme des Glaubens" R Messias is affiliated with the station but is not part of it. Address: R. Vox Fidel, Postfach, CH-8040 Zurich, Switzerland (Geoff Cosler, Victoria via Willis) Cf Feb LN-3 (gh) DLF noted with own IS 7285, 2030 in Czech via Sines (Cosler) Lisbon 11875 one night, 26/2 0100 with Port to overseas migrants, slightly distorted with crossmodulated Lisbon Spanish audible. Not //11935 which had different Port pgm also to Portuguese overseas migrants. Meanwhile, Spanish was on 11790/11840 (but not on 11935, which had carried Spanish on 24/2). Spanish ID indicates one of the frequencies is beamed to Venezuela (to Estado Portuguesa?) but doesn't say which (R. Wood)

**ROMANIA** On the day of the earthquake, Bucharest continued normal operations 2300-0300 on 5990/9570. Announcements on 4-5/3 were brief but specific, remainder was musical filler. A new, American-sounding announcer was heard on the English service 0130-0230 (Richard Wood)

**ST. HELENA** Govt. Broadcasting Station has suspended SW until sometime this year because 1511 MW is more useful. At 0.4 kW who could hear them anyway? (ODX) via DXPL 26/2) WRTVH 77 no longer lists 6100 and 11830 for them (gh)

**SEYCHELLES** FEBR on new 11850 \*0301 IS, 0305 IDs, 0310 pgn (Pitt McNeill, DC) 13/3 at 0415 ID in Arabic, pgn, sounds like some guy as on WYFR: SIO 455 (gh) ID seems to be "Radio Seychelles"; sometimes has English lesson at 0315; closes 0445\* (Hadley Cress, VA) A different FEBR pgn, and much weaker heard on 11865 13/3 at 0446, ID in English (gh)

**TANZANIA** R. Tanzania noted on 9684 ex-9550 (Victor Goonetilleke, R. Nederland 25/2)

**THAILAND** Am hearing an unID on 1700.6 kHz. closing at 0855 and reopening around 0945, perhaps in Korean (Mike Hardester, Okinawa) Listening to your tape, I'm sure it's in Thai, and the first letter of the call appears to be "Wor", but no Thai stations are listed on 850(gh)

**USA** XEJN, R. Huayacocotla, is being relayed from Jacksonville, FL, on 2566 kHz, noted intermittently around 2330-2430 10-12/3, with definite IDs. Appears to be mike-to-speaker relay by WNJ which monitors 2390 kHz, XEJN's frequency, for ship traffic. XEJN not audible here except by relay until after 0000, when WNJ breaks for marine weather (gh)

BBC WS beginning with M77, finally admits it is relayed by VOA-Greenville on 9510 at 0030-0330, belatedly reestablishing its credibility, by using the symbol "K" in its frequency sked, leading SWNS to surmise Kigali, since it wasn't explained in "London Calling" (gh)

KGEI reports that its listener mail in 1976 was up 27% from 25,344 letters in 1975 to 32,158 in 1976. Of this total, only one letter was in response to Mandarin programming from China; 9 were from the USSR for Russian; 16,363 from Japan; and 14,637 in response to Spanish and Quechua programs. The Tokyo office received 18,244 more letters from Japan, totaling 34,607 from Japan alone, or 47 per hour of programming (KGEI Newsletter)

WDCL, Dunedin FL, audible at 2105 on 2940, 2 x 1470 (Terry Krüger, Casselberry FL, TDXN)

**USSR** The interval signal of Mayak (second program of All-Union Radio, Moscow) was amended in Jan or early Feb 1977. Previously two types of IS were used, both from "Moscow Midnight" --the first 4 bars at :59, and the following 3 bars at :29. The new IS is like that at :59 but is arranged somewhat differently with slight echoes, and is used both at :29 and :59 (Takahiro Saito, FEDXR 25/2) R. Stansiya Rodina IS, ID at 1401 5/3 on 19440, presumably 2 x 9720, site? (gh)

**VENEZUELA** The Venezuelan Ministry of Communications has contracted REG-Telefunken Venezuela "to tape all local radio transmissions for documentation, registration, and (Big Brother) control," reports the Venezuelan Economic Review, a well-informed newsletter. Perhaps this explains the sudden rush by Venezuelan broadcasters to conform to Ministry of Communications "guidelines" (Jim Whitehead, SPEDX 3/76) The Mérida station on 6010 was heard at 0330 with a new ID of "R. Diez Cuarenta" (10-40) (Jan Tunér, RN 10/3) WRTVH 77 list R. Los Andes (gh)

**VIETNAM** Hanoi very strong on 4943.5 22/2 1130-1220; during 1130-1200 had a quiet program similar to Sonny & Cher! (Perry Ferrell, NJ, TDXN)

**YEMEN NORTH** R. San'a has again changed its 7 MHz channel to 7235, ex-7265, also on 9780 and 4853 (BCMS 24/2)

**ZIMBABWE** As of 31/3, R. Matopos is no longer relayed on SW and R. Jacaranda is to be all-MW. Only the General and African services will be on SW, the former on 6020/5012/3396/2424, and it is not known if there are any changes in the latter (Gerry Wood, R. RSA, 9/3)

## FUTURE PLANS

AFARS & ISSAS A referendum is to be held in April, and independence at the end of June is expected to be approved (BBC nx 17/3)

**BOPHUTHA-TSWANA**, another South African homeland, is to become a republic 6/12/77. A new capital is to be built near Mafeking and will be called Mmabatho. The territory covers mostly non-geographically linked areas of the W. Transvaal and N-E Cape Province. B-T will probably have its own radio station (Richard Ginbey, Azania, SCDX 15/2)

**ECUADOR** HGJB DXPL 1/3 said new 500 kW xmtx was about 2 years from completion (Bishop, PA)

**GUAM TWR** to be on in April--maybe. Registered for 9520 9530 9575 11705 11780 11900 15115 15155. English expected 11780 0900-1100, 15115 0030-0130, per fgy coordinator (Bishop, PA)

ISRAEL IBA's "Ulpan of the Air" Hebrew course will be rerun as from May 9 (IBA Mailbag 6/3 via Wegener, IL) Free scripts for the lessons can be obtained by writing to Israel Radio, Box 204, Cheltenham PA 19012; or Box 1082, Jerusalem (IBA via NASWA HQ)

LORAN-A, a vital navigational aid, but an annoying buzz in the 1900 kHz area for hams and DXers, is to terminate by 1/7/80 as Loran-C, in the 100-kHz area, is phased in. Here are the expected termination dates for the various Loran transmitters: 30/6/75: Baffin Bay; 31/12/77: Iwo Jima-Okinawa, Marianas, Marshall Is. 1/7/79: Aleutian Is., Gulf of Alaska, HI, West Coast. 1/7/80: Caribbean, East Coast, Gulf of Mexico (Sea Technology, 1975? via Robert H. French, MD)

OMAN Britain is closing its military base at Masira Island, saving \$6 million a year, as of 31/3. It had helped the Omanis fight Marxist-led guerrillas, but the Defence Ministry said the anti-insurgency campaign is nearly over (AP 17/2 in New York Times via Foxworthy) Since this is voluntary, presumably BBC's plans to expand its relay there to SW will continue (gh)

PHILIPPINES R. Veritas plans to get a fifth xmtr, of 300 kW during 1977 (R Australia DX via Yoshiaki Hayashi, FEDXR 25/2)

THAILAND Bangkok radio announced that on 12/1 the Thai Cabinet approved the projected purchase of two 500 kW xmters for the Public Relations Department (BBCMS 3/2)

UKOGBANI It is hoped that Big Ben will have been repaired and back on the air in time for the Queen's anniversary in June (BBC Letterbox 26/2)

USA (Cf Mar LN-5) More on WYFR's move to Florida. There will be 22 antennas instead of 9 in Scituate. WYFR will not lose any on-air time during the move, expected to take 12 to 18 months (ISWR, England; Joseph Buczynski, WRMF Radio, FL, via SCDX 8/3)

WINE plans to issue a pennant in the future, among other ideas in the mill (Bishop, PA)

YUGOSLAVIA (Cf Feb LN-6) On 26/1 the Federal Conference of SWWPY officially established "R. Yugoslavia," the Tanjug news agency reported. Its function will be to broadcast SW pgms in foreign langs and in S-G for Yugoslav workers temporarily employed abroad, emigrants and seamen (BBCMS 3/2)

## CLANDESTINE CRANNY

(Cf Feb LN-6) R. Iran Courier (Peyk-e Iran), pro-communist attacking Shah in Persian, Kurdish and Azerbaijani, has not been observed on any scheduled frequencies in the two months following its last monitoring on 30/11/76 (BBCMS 3/2) The following report appeared in the Tehran news paper "Kayhan" on 2/2:

Events magazine published in London says in its January issue that Bulgaria has closed down the anti-Iranian radio station that had operated there for many years. The closure was done on the initiative of the Sofia Government rather than by Iran's demand. The clandestine radio was called Peyk-e Iran.

Political observers say Bulgaria's decision reflects Iran's growing importance on the international stage and the fact that the radio had lost most of its listeners.

However, reports from Tripoli say that Libya having bought six new transmitters with a power of 500 kW each intends to use those facilities to support the re-located anti-Iranian radio. Staff members have already arrived in Libya after being asked to leave Bulgaria. (BBCMS 17/2) Cf LN-1, LN-3, LN-4 for its effect on R. Sofia (gh)

Voice of Arab Syria, Arabic language clandestine repeats its 0500-0600 xmsn at 0800-0900, both on 9510 and unannounced 6060 (BBCMS 17/2)

Arabic terror organizations operate on the 20m hamband in SSB, usually 14338-14348 kHz, some times also on 14128. Presently the famous Black September uses the main channel of 14290 USB and the call sign usually consists of 2-3 figures (Siegbert Stadtmuller, GFR, SCDX 15/2)

Radio Maubere, the national radio of the Democratic Republic of East Timor, is broadcasting in Port., Tetum, English and Indonesian langs. at 7 p.m. Darwin time (0930 GMT -gh) on 3804 and 9965. FALANTIL soldiers of the DRET have captured enough radio equipment from the Indonesians to set up R. Maubere, which broadcasts three times a week thruout E. Timor. All according to a bulletin received from East Timor (SCDX 22/2)

Voice of Burmese People has changed sked since 1/2 on 6304 to \*1030-1130\* ex\*1330-1430\*. Is in Burmese only and only on Tue/Thu/Fri/Sun. Don't know if still on 5110 at 1200-1300 (Ugusa)

La Voix de Namibia (so, in French?? gh) during program on 4780 but usual R. Bissau ID at s/off, first noted 8/2 with super signals 2215-2359\*. Usually has 15min news at 2230 with all the latest info on who's overruling whom and the latest meetings between black nationalist leaders with mentions of SWAPO, Angola, RSA, Gabon. Not noted on 15/2ff (Whitacre, MI, TDXN)

PIRATES 4875.1, Sunday 6/3 from 2040 playing pops and asking DXers to call in requests at 358-8765, mentioned Pennsylvania and believe it's there. Horrible modulation, think might be same guy as on 4906.1 4/12/76 (Pitt McNeil, DC) A pirate around 1610 22/2 from 2350 with WDRG-FM Hartford CT, off-air relay or taped, and jazz; fair-to-good sigs at (SWNS HQ, Ont)

MONGOLIA Eng is still announced at 1715, not 0115! RUB is very confused (Gib Junqua, 16/3)



ABC-England has been making test transmissions on 9520. It is not a 'hobby pirate' or 'pop-pirate' as such but a clandestine devoted to the promotion of Free Enterprise Radio. So highly respected are the beliefs of the station's staff that the regional station Anglia TV recently broadcast a documentary on ABC England. It is normally heard on the first Sunday of each month on 6270 at 1000-1300 with a DX pgm on the half-hour (GaryDay, Cambridge, UK, SCDX 1/3) Is professional-sounding with chorus jingles, etc 6/2 DX program said everyone connected with the stn had been fined £25 just last week and that the station was being prosecuted for QRMing maritime traffic, notably Portishead Radio which, the report stated, had been monitoring ABC England on the government's behalf since Sept 1976. Their test on 9520, some Sun day at 0400-0600 is an attempt to move into a broadcast band (Andy Robins, Ireland, TDXX)

Radio Valleri heard 23/1 on 6260 at 1045-1200 giving address in Surrey Announcer said it had been heard as far away as the USSR and was popular in Eastern Europe. After 1200\* they tested for 3 mins on 6202, well heard here (Robins, Ireland, via Whitacre, MI, TDXX)

Radio Solent City International on 6280 ex-6225, 16/1 0955-1045\* in English and German with a Nottinghamshire address. Likely low-powered and 'in the field', obviously pre-recorded. probably on cassette due to wow and flutter (Robins, as above)

## DX PROGRAMS

PIRATES See above; and R.S.C.I. had one at 1007 (Robins, Ireland)

AUSTRALIA Special QSL; cf Mar FRENDX-3 (gh)

AUSTRIA R. Austria's Spanish DX pgm appears sometime between 1400-1500 on 6155/9770/11750 on Wednesdays, plus 2210-2300 on 7125/11830/15435; GMT Thus at 0100-0200 on 11720, and 0300-0400 on 9650. The French DX pgm is aired certain Fridays between 2030-2100 on 6155/7160/11950/15135, GMT Sats 0100-0130 on 6155/9770 and 0800-0830 6155/15105/15410/17850. In contrast the English DX program is not broadcast so NAm can hear it easily, but Sun 0915-0930 on 6155/7160/9770/17765, and 1805-1820 on 6155/9690/15335/17770. The ORF German DX program is scheduled Sat 1330-1400 on 6155/9770/17775 (ORF W77 sked via NASWA HQ)

BULGARIA R. Sofia GMT Sat 19/3 0445 no DX pgm; skipped or resked? (gh)

ECUADOR HCJB has added another airing of DX Party Line, totalling 5 each of the 3 different weekly programs, for a total of 7½ hours per week of English airtime for DX. The 1200 airing intended for Japan may be more convenient for some NAm listeners (gh) Tue/Thu/Sun GMT at 0230, other times are Mon/Thu/Sat:

0930	9745	227.5°	30 kW	So Pac	1700	17775	40.8	100	Europe	0230	11915	334.1	50	NAm
1200	6075	335	100	Japan	15310	39	100	Europe	9560	324.1	100	NAm		
	9715	324	100	Japan	2000	17775	40.8	100	Europe	(DXPL 8/3 via John Wegener, IL)				

I heard HCJB's French DX pgm on 11885 at 0200-0215 12/3 (Sat -gh), with sunset counts and OSCAR sked, giving an address in France; for Canada? (Arthur Watson, BC) Guess so. It seems HCJB by using 2 instead of 3 xmtrs for most pgms is able to broadcast more languages at the same time, e.g. cf. SWEDEN LN-2 (gh) Spanish DX now GMT Tue 0145 15115 (gh)

GERMANY WEST (Cf Aug LN-8 Mon/Tue) RIAS Berlin has a German DX pgm, Rundfunk International, first Sunday of each month at 1103-1130 on 6005 (Siegfried Heldt, GFR, SCDX 1/3)

HUNGARY R. Budapest during Sat 0400-0415 DX pgm refers only to Sat; has Wed edition been dropped? Same freq changes from 17/4 apply as on LN-2 0200; and the 1515-1530 Tue/Fri edition to Europe becomes on 17780 15160 11910 9585 9215 9290 7155 6110 (Budapest Int'l, gh)

NETHERLANDS (Cf Feb LN-7) A reminder about the Communications course beginning on DX Juke Box 7/4. The North American DX Report on the 21/4 program marks my tenth anniversary (gh)

NETHERLANDS ANTILLES DX Special seems to have changed from 0045 to 0035 when TWR opens its 11925 xmsn from Bonaire (Jon Cohen, NJ, 11/3) GMT Thursdays (gh)

PORTUGAL In addition to the fifth Thursdays on RN's DXJB, European DX Council progress reports are to appear on the Adventist World Radio DX pgm on 29/5, 31/7, 30/10 (DW DX 12/3)

SWAZILAND et al. I have the uncomfortable feeling TWR is re-running the same old DX Specials but at least with a DX News 'hole' of recenter info; or do they just all sound alike? (gh)

UKOGBANI (in Portuguese it would be RUDGEBIN -gh) BEC Brazilian service has let Roberto Levinstein, Brazilian DXer and student living in London, start a 3-minute DX program every Tue around 2335. It may be extended to a full 15min depending on listener reaction (SCDX 15/2)

USA KGEI has a new DX pgm, "DX San Francisco" Sun at 0710, 1010 on 5980 (Eddie Scott, DXPL 20/3) Well, not on 20/3 anytime between 0700-0800 when I checked (gh)

K4GLU, Alan Merriman, VA, and W2B2YA, Tom Sundstrom, NJ, have a DX discussion net Sun at 0845 EST on 3895. The Sun evening at 2300 EST net is also on 3895 ± 5 (Merriman, NRC)

WUOT, 91.9 MHz, 100 kW, Knoxville TN, plans to rebroadcast Harry Kilphuis' recent features on R. Nederland's musical signatures, previously serialized on DX Juke Box, Saturday, 7 May at 0200-0300, or in EDT, Friday, 6 May at 2200-2300; from tape, not off air (gh)

KDWN-720 Las Vegas NV has cancelled weekly DXer Report as of 20/1, due to personnel changes and immature, cheap criticism and Jack London said he got from IRCans (Bill Harang)

USSR The Radio Moscow DX Club should be rolling in about a month. We really do plan to read non-ham DX tips, and reception reports. Members' views will be read on the air. Rules and regulations are now available. Fifteen reception reports per year will be required of members (Paul Kuznetsov, R. Moscow DX 11/3)

## PROGRAM SCHEDULES

LIBERIA ELWA has a program of Liberian news daily at 2045 on 11945 (Ontario DX Assn via DXPL 16/2)

PERU R. Nacional de Tacna on 9530 carries a daily pgm at 1300-1330 called "A paso redobla-do" (marching at double-time) devoted to enhancing the nationalism of the Peruvian people. It includes commentaries on government projects, excerpts of official speeches and Peruvian folk music (FBIS via BECMS 24/2)

PHILIPPINES DPI (not PBS), English programs are very similar to those on R Filipinas (Gib Junqua) Well, let's compare RP pgms on 9580 here with Mar LN-7, times being average from constant variation: News and Editorial "The Philippines Calling" or "The Philippines News" at 0710-0720, 1005-1015, 1200-1210, 1400-1410, 1700-1710. "Come to the Philippines" at 0730-0745, 1020-1035, 1215-1230, 1430-1445, 1720-1735. "Philippines Economic Digest" at 0745-0800, 1035-1050, 1230-1245, 1445-1500 "Rural Philippines" at 0810-0825, 1510-1525 Review "The Philippines Today" at 0825-0840, 1050-1105, 1250-1305, 1525-1540, 1735-1750. Mailbox at 0855-0910. News Digest at 0925-0940, 1600-1615, 1800-1815. "Let's Speak Filipino" at 0940-0950. (BECMS 1/77)

SWEDEN There has been a recent change in R. Sweden's programming. We will be concentrating our news bulletins now on Scandinavian news, with fewer international stories. Mon-Fri news is first, then Panorama. First Monday of the month feature is Stamp Corner; other weeks Music from Sweden. Tues, Sweden Calling DXers; Weds, Swedish Scene; Thurs, People in Sweden; Fri Special; Saturday Show; Suns, Echo-week in review. and Mailbag (R Sweden M77 sked)

UK For those of you no longer getting London Calling, these features I recommend for April: In the cycle Wed-1430, Thu-0030, Fri-2030, Among the Dolphins April 6-8; A Way of Love--on a day in the life of Benedictine nuns, April 13-15; 100 Years of Recorded Sound, April 20-22 and Shakespeare on Record, April 27-29. Sun-1709, Tue-0030, Thu-1130, The City They Left Us --on the millennial of York, April 3-7; Farming Tomorrow, April 10-14; The Right Sort of Food April 17-21; and The Changing Role of the Ambassador, April 24-28. Frank Muir is joined by Alfred Marks for a weekly comedy lecture-anthology Suns 1430, Mons 0230 Tues 1030. A one-time special for Easter is The Best of Peter Sellers, April 8 at 1900. On Radio Theatre in April, a series of legal dramas by James Fairfax. Suns 1900, Thurs 1345, Fris 0030. (gh)

USA KGEI daily features in "The Golden Gate to Friendship" hour at 0700 repeated 1000 are: news, commentaries, interviews, A Philosopher Speaks, Guidelines for Living, New Dimensions, It Happened in S.F., Think About It. At 1030 Mon-Fri, Haven of Rest; Sun, Good News; NASA's The Space Story is heard Saturday only. 5980 kHz. (Richard D. Swanson, IA)

WYFR's "Open Forum" at 0305-0330 discusses among other questions, April 9, How is the gospel to be communicated to the world? April 14, Can we look for truth outside the Bible? April 16, In light of I Cor. 7:12, 33 and 38, is it more desirable not to marry? April 21, Could the fact that many scientists see the fallacy of evolution have anything to do with the fact that we are near the end of time? On 6155 (WYFR program schedule)

## PUBLICATIONS

Down-Under DX Survey, published by the DUDX Circle has a new address: Geoff Cosier, 7 Donald Rd., Burwood 3125, Victoria, Australia (Mike Willis, Vic., who adds that next issue is due out in early April)

Russian Reporting Guide, is a new JADX publication written by Takahito Akabayashi, and Takahiro Saito, "the most detailed guide for reporting in Russian and for understanding domestic services in the USSR." Contains: Reporting in Russian; Domestic services of the USSR; announcements in Russian; Frequency list of home services heard in Japan, etc. Price is 4 IRC for airmail, 3 for surface, from: Japanese Association of DXers, Box 1766 Tokyo Central, 100-91 Japan (FEDXR, Junqua, SCDX)

SPEEDX Utility Guide, a new edition by Paul Mayo et al. is now available. Over 200 pages, offset printed with comb binding, including 40 pages on CG stations alone; lists of logs of other types of stations and useful reference material for non-broadcast DXing. Price for non-members of SPEEDX is \$6.95. Order from SPEEDX, Box E, Elsinore CA 92330, mention LN(gh)

Time magazine had an interesting passage about SWling in the USSR, 21/2 page 24 (UADX) Only in the international edition? (gh)

## UNIDENTIFIED

2860 17/3 at 0355 Spanish, LA mx, intermittent het QRM. 0407 Colombia mentioned (gh)

5050 time pipe every 5 seconds. noted 2200 most days; \*2317 8/3, past 0400; no anmts (Pitt)  
6012 Spanish at 0900, mixed with non-Latin inID on 6013; and on 6015 0900-0910fade (Willis)  
19070 Arabic distorted talk 13/3 1517, SIO 354, perhaps Algeria like 17540, not harm (gh)  
19160 programming barely audible 8/3 1920; likely 2 x 9580, too early for BEG (gh)  
24160 vy weak pgm 8/3 1905 when CR-24024 in. If 4 x 6040 what else but Tolima? (gh)



# QSL REPORT



BILL OLIVER, EDITOR  
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APRIL 1977

Three veries from Benin and some nice South Americans are a few of this month's highlights. The SA's include R. Carve, Uruguay, from David Gaines; R. Madre de Dios, Peru, from Marlin Field, and R. Impacto, Venezuela, from Henry Lazarus. These are all first-time reports. Let's start with "Combos"...

BBC World Radio Club DX Awards: ASCENSION IS, 9580; ENGLAND, 15070; ANTIGUA, 6175; MALAYSIA, 11750; CANADA, 6175. Received in 2 1/2 months. (Greenidge-NY).  
CYPRUS, 15420; ENGLAND, 15070; CANADA, 15365; ANTIGUA, 6195; MALAYSIA, 9740. Received in 108 days. No rp. (Mayer-IL). ENGLAND, 5975; CANADA, 6175; CYPRUS, 6180; ANTIGUA, 6195; ANSCENSION IS, 15260. Received in 98 days. (Cohen-NJ).  
MALAYSIA, 11750; ENGLAND, 7325; CYPRUS, 6180; ASCENSION IS, 9580. Received in 2 months. (Overcamp-SC). Where's the fifth one, Tom?

R. MOSCOW "COMBO CARDS": Moscow-7350; Armavir-7200; Orsha-7100; Lvov-6070; Ivano-Frankovsk-7110. Card in 6 weeks. No rp. (Kinnaly-MA). Moscow-7290/9700; Kiev-7160; Kaunas-7100; Omsk-7320; Tula-7250; Petropavlovsk-Kamchatka-15210. Card in 148 days. No rp. (Biasini-ALB). And here's the rest....

AFARS & ISSAS: FR3, 4780, plain white card in 68 days. No rp. (Schulman-NY).

ALBANIA: R. Tirana, 7065, f/d card in 75 days. No rp. (Peterson-CT).

R. Peking Relay, 7120, card and sked in 34 days. No rp. (Nyers-AZ).

ANDORRA: R. Andorra, 6230, "Mountain Scene" card with FF verie statement and freq in 45 days for 2 IRC's. Rpt sent to B.F. 1, Andorra-La-Vielle.

(Collier-NY); same in 35 days with a letter from J.L. Marquet for 4 IRC's and stamps. (Young-CA); same in 41 days. No rp. (Bishop-PA).

ANTIGUA: BBC Relay, 6195, no-data "Thames" card with "Antigua" typed on it in 25 days. No rp. (Kinnaly-MA): 6175, f/d special DX QSL Award for 5 BBC sites including Antigua in 67 days. Country #203!!! (Young-CA).

ARGENTINA: R. Nacional-Mendoza, 6180, f/d card in 6 months on 4th try for an SASE which was not used. (Field-MI).

ARMENIAN SSR: R. Yerevan, 11960, f/d card in 16 weeks. No rp. (Rude-CA).

ASCENSION IS: BBC Relay, 15260, no-data "Thames" card with site typed on it and World Service Freq/Time Chart in 25 days. No rp. (Kinnaly-MA): 9410, no-data card in 42 days. No rp. (George-TX).

VOA Relay, 15195, f/d card in 4 days. No rp. (Bishop-PA).

ASIATIC RSPSR: R. Moscow via Omsk, 7320, f/d "CMEA" card in 98 days for 1 IRC. (Dubrick-IL). Via Nikolayevsk-on-Amur, 9780, via Blagoveschensk, 11940; via Vladivostok, 15130, f/d card in 46 days. No rp. (Biasini-ALB). Via Kenga, 9720, card and rpt form in 1 month. No rp. Via Yakutusk, 7320, card in 11 months after returning it for site. (Field-MI).

AUSTRALIA: R. Australia, 15320, f/d card and rpt form in 7 months. No rp.

(Kay-NY): 9580, same in 34 days for 1 IRC. Calendar received 2 weeks later.

(Fraser-MA): 11810/11325, f/d cards in 97 and 98 days. No rp. (Mayer-IL).

Cards were "Parakeet" and "Blue Wren".

VLQ9-Brisbane, 9660, f/d blue map card with power listed in 4 months. No rp. (Krueger-FL).

VNG, 12000, f/d verie letter in 33 days. No rp. (Ebert-WI).

AUSTRIA: ORF, 11950, "Austrian Art" card and sked in 7 weeks. (Padula-AUST):

17765, card in 2 months for 1 IRC. (Dalrymple-AUST).

BELGIUM: BRTV, 6080, f/d blue/white CRU card, pennant and Mailbag Program

transcript in 30 days. No rp. (Neehan-CT); same card, sked and travel info

in 20 days for EE f/up rpt and 1 IRC. (Ward-NB); f/d card in 22 days for 1

IRC. (Noonan-WI): 9725, f/d card and sked in 1 month for 1 IRC. (Benner-IN).

BELIZE: R. Belize, 3285, f/d yellow map card in 18 days for 2 IRC's. (Luce

-TX); same card in 25 days for mint stamps. (Pickell-IL).

BENIN: La Voix de la Revolution, 4870, very colorful QSL card w/o freq in 9

months for FF rpt and 2 IRC's. (Delap-AZ); same card w/freq underlined in 64

days for FF rpt on FF xmsn and Christmas card. No rp. Postage on card was 100 F. (Gionet-NB): 7190, same card w/o specific freq in 9 months for FF rpt, 2 IRC's and photo. Glad to get this one! (Herkimer-NY).

**BRAZIL:** R. Nacional, 11780, f/d "Seasons Greetings" card, calendar, sked, info and stamps in 56 days for 1 IRC, postcards, baseball cards and used US stamps. (Ebert-I): 15245, same f/d card in 50 days for SS rpt and 1 IRC. (Durdan-GA).

R. Sociedade de Feira, 4805, white BS 3L and many Brazilian stamps in 5 months for 1 rpt and mint stamps. This reception prior to Azores return to the air. (Abraham-I).

**BULGARIA:** R. Sofia, 9700, "Sofia U" card w/time, date and mb in 105 days. No rp. (George-FF); same with sked and rpt forms in 101 days. No rp. (Bishop-FA); first card in the series and sked in 64 days. No rp. (Schneck-IC).

**BYELORUSSIAN SSR:** R. Moscow via Orsha, 7105, f/d "CEA" card in 32 days. No rp. (Cohen-BA).

**CAMEROON:** R. Garoua, 5010, two nice letters from Jim Achanyi Fontem, sked and info in 2 weeks and 2 months. No rp. (Schulman-AY).

**CANADA:** CBC Northern Svc, 6195, "non-3L" card in 15 days. No rp. Report on new freq with old freq still being announced. (Ferguson-NV): 6065, "Eskimo" card w/wrong time in 1 month. No rp. (Overcamp-SC).

**CANARY IS:** RTVE Relay, 11880, f/d card but no site in 4 weeks for SS rpt. No rp. (Seltzer-CNT); "Toledo Antenna" card w/o site despite the card being returned and a new one issued. No rp. Does anyone get the site on this? (Overcamp-SC). Yes sir, Tom. Look...f/d "Noblejas Xmttr" card stapled to a sked showing the xmsn as being from "Tenerife Canary Islands". Received in 29 days for SS rpt using their own rptng card. (Gionet-NB). Next the VOA!

**CHAD:** Rdiff. Nationale Tchadienne, 4904.5, f/d "Three Scenes" card in 20 days for FF rpt and 1 IRC. (Seymour-IC).

**CHINA:** R. Peking, 11945, "Red Flag Canal" card, enameled lapel pin and picture card of the People's Park in 27 days. No rp. (Marshall-ND): 15060, same card w/o time, sked and nice letter in 22 days. No rp. (Swanson-IA); "Yao Mt." card in 21 days. No rp. Pennant and mags followed a week later, 5x7" glossy of Mao came 2 weeks later and a beautiful calendar arrived in 1 month. (Hinnaly-NA). What did you get lately, Paul? weo

**COLOMBIA:** R. Nacional, 4955, card in 2 months for 2 IRC's. (Dalrymple-ROBT).  
Ecos del Combeima, 4875, personal letter, stamps, two bills in

Colombian paper money and a picture of Alfonso Tovar S., the verie signer, who collects stamps and money from different countries received in 6 weeks on 5th try for an SADE which was not used. (Field-MI).

R. Cinco, 5040, personal verie letter in 2 1/2 months on 2nd try. No rp. Also received a Christmas card before the letter which said that 3L cards were being prepared and one would be sent. (Field-I).

R. Colosal, 4945, letter w/o freq and pennant in 30 days for SS rpt and mint stamps. V/s Fernando Navarro G. (Pyatt-IA).

La Voz de los Centauros, 5960, no-data white card and station sticker in 32 days for NASWA SS rpt and 3 IRC's sent by registered mail. V/s Guillermo Torres Bernal. (Ward-NB); same in 54 days for SS rpt and 1 IRC. (Gionet-NB).

**COSTA RICA:** R. Reloj, 4832, f/d "Irazu Volcano" card in 10 days for 1 IRC. (Benner-IR).

TIPC, 9645, f/d EE/SC card, letter, pennant and used stamps in 55 days for 2 IRC's, SS letter and used UD stamps. (Krueger-FL); card and pennant in 4 weeks for 1 IRC and postcard. (Abraham-I).

**CUBA:** RHC, 15230, f/d card, sked and pennant in 76 days for 1 IRC. (Smith-NY). Now they have pennants: 11865, f/d card, letter, general sked and SS detailed sked, barrage of Castro photos, booklets, calendars and other propaganda, all in SS received in 22 weeks for SS aerogramme rpt and, obviously, no rp. (Gaines-CT): 9685, f/d card in 42 days. No rp. (Noonan-WI): 9525, f/d card, sked and pennant in 62 days. No rp. (Myers-AZ).

**CZECHOSLOVAKIA:** R. Prague, 7345, f/d "Favel Artwork" card in 76 days. No rp. (Fraser-PA): 5930, f/d "Lipno Dam" card, Monitor Club info and World Peace Council propaganda in 25 days. No rp. Also received "Czechoslovak Life" mags separately. (Gaines-CT); f/d "Castle" card in 45 days for EE rpt on FF xmsn. (Meehan-CT).

**DODECANESE IS:** VOA-Rhodes, 6015, f/d "Stamps" card in 5 days. No rp. (Seymour-NC).

**ECUADOR:** Emisora Gran Colombia, 4910, SS letter, used stamps and pennant in 61 days for SS rpt, used US stamps and 2 IRC's. V/s Eduardo Cevallos Castaneda. (Krueger-FL).

HCJB, 9560, f/d "Llama" card, sked and lots of religious material in 21 days for EE aerogramme rpt. No rp. I definitely recommend aerogrammes for those who feel guilty about not sending an IRC. (Gaines-CT). who? Me? 6095. f/d card, sked, religious literature, calendar, questionnaire, "INDEX"

mag and application in 36 days for 2 IRC's. (Frank-SASK); black/white f/d "Globe" card, sked, ANDEX info and pennant in 27 days. (Swanson-IA): 15310, f/d "Doll" card, sked and pennant in 1 month for 3 IRC's. (Bebber-IL).  
**EGYPT:** R. Cairo, 9805, f/d 1st serial, 1st scene card in 57 days. No rp. (Hoffman-PA): 9475, same f/d card in 39 days. No rp. (Cohen-NJ); f/d card in 38 days. No rp. (Peterson-CT): 11715, "Mile River" card with QSL text in GG for an EE rpt on PF xmsn! Received in 12 weeks with an outdated sked. This is the first time I've QSLed this country since 1971. All my other rpts in the last 6 years went unanswered! (Padula-AUST).

**ENGLAND:** BBC, 3915, card in 13 days for 1 IRC. (Dalrymple-AUST).  
 VOA-woofferton, 9760, card in 3 weeks. VCA site #15. (Abraham-MI).  
 7200, date/site "Stamps" card in 46 days. (Diasini-ALB).  
**ETHIOPIA:** ETLF, 11800, card in 3 months for 1 IRC. (Dalrymple-AUST).  
**EUROPEAN RSFSR:** R. Moscow via Moscow, 7280/6010/7360/7355/7135, cards in 4 to 6 weeks. No rp. (Meehan-CT, Barto-CT, Cohen-NJ, Cvercamp-SC). Via Kazan, 6170, cards in 4 to 6 weeks. (Gaffin-NY, Barto-CT, Cvercamp-SC). Via Armavir 7200(5), cards in 4 to 5 weeks. (Cohen-NJ, Meehan-CT). Via Ryazan, 5980, card in 1 month. (Barto-CT). Via Kalach, 15200, f/d card in 16 weeks. (Padula-AUST)



from JOE DELAP and ONIL GIONET

**FINLAND:** R. Finland, 15110, f/d "YLE 50th Anniversary" card and hear Finland mag in 25 days. No rp. Haas-NJ); f/d "Winter" card, sked and hear Finland in 33 days. No rp. (Benner-IL): 11755, same f/d card, sked and hear Finland in 25 days for 2 IRC's and postcard. (Alm-BC).

**FRANCE:** RFI, 15425, f/d "La Tour Eiffel" card, sked and pocket calendar in 1 month for 1 IRC. (Foole-GA); f/d "L'Arc de Triomphe" card and FF Seasons Greetings pocket calendar in 17 days for 1 IRC. Requested pennant not sent. (Dammeyer-NY): 15200, same f/d card, pennant and sked in 41 days. (Biasini-ALB); f/d "Ile de la Cite" card and sked in 33 days for 1 IRC. (Dubrick-IL).

**GABON:** Rdiff. Gabon, 3350-Franceville, two identical FF letters in separate envelopes, one the carbon of the other, and sked in 2 months on 2nd try for 1 IRC. Letter states that 4830 kHz is rarely used. (Field-RI).

**GERMANY (E):** RBI, 17880, card, travel brochure, newsletter, sked and personal letter in 40 days. No rp. (Schneck-NC).

**GERMANY (W):** Deutsche Welle, 11905, card in 2 months. (Dalrymple-AUST).  
 Sudwestfunk, 7265, psychedelic card w/o time in 38 days for 1 IRC. V/s Dr. Schorken. (Gaffin-NY); same in 21 days for 2 IRC's. (Young-CA).  
 Radio Free Europe, 11815, f/d blue/white card in 50 days for EE rpt on Hungarian xmsn. No rp. (Gionet-NE).

VOA-Munich, 6030, f/d card in 1 week. (Cvercamp-SC): 3980, f/d card in 4 days. No rp. Power listed as 8 kw. (Bishop-PA).

**GHANA:** GBC, 4915, f/d card in 10 months for 1 IRC. (Kinnaly-MA).

**GREECE:** V. of Greece, 9760, f/d white card and sked in 19 days. No rp. (Ebert-WI); same in 21 days for 2 IRC's. (Lyatt-PA): 11730, same in 20 days for 1 IRC. (Dammeyer-NY).

VOA-Kavala, 7270, f/d card in 4 days. No rp. (Bishop-PA).  
**GREENLAND:** Gronlands Radio, 3999, nice folder QSL in 3 weeks for postcard and mint stamps. (Abraham-MI).

**GRENADA:** R. Grenada, 15105, f/d brown card with sked on it and correct xmsn checked in 2 1/2 months. No rp. (Schonfeld-CT); f/d card in 74 days for EE rpt

and 2 IRC's. (Durden-GA).

**GUATEMALA:** TGNA, 3300, date/freq "quetzal Bird" card, sked, letter and tourist and religious info in 55 days for 1 IRC. (Hoffman-PA); same card in 13 days for 1 IRC. (Daniels-IC).

R. Maya, 3325, f/d "Warrior" card in 63 days for 33 rpt and 1 IRC. V/s Lorán W. Veith, Jr. (Rude-CA).

**HAITI:** 4VER, 9770, f/d "Haitian Maiden" card in exactly 1 year and 1 day for 33 rpt. No rp. (Dubrick-IL): 11835, same f/d card and the mandatory religious material in 3 months for 33 rpt and 1 IRC. (Schoenfeld-CT).

La Voix du Peuple, 2950, FF letter acknowledging that I received them on a harmonic freq. Very unusual. (Barto-CT). Normally 1475 kHz (KATV). wco.

**HAWAII:** WVVH, 15000, card w/o time in 13 days for 13¢ stamp. (Noonan-WI); same in 12 days. No rp. (Hamilton-NC).

**HONDURAS:** HRVC, 4820, f/d map card in 1 month for 33 rpt. No rp. (Rude-CA); same in 18 days. No rp. (Frank-CAK); same in 32 days for 33 rpt and 1 IRC. (Gaffin-WY).

R. Swan, 6015, SE letter with only freq and verie statement and "press card" valid for 1 year in 22 days for EE rpt and 1 IRC. (Durden-GA); same in 14 days for 33 rpt and 2 IRC's. (Krueger-PL); same in 28 days for 33 rpt and mint stamps. (Hikell-IL); same in 25 days for 33 rpt and 1 IRC. (Gionet-NE).

**HUNGARY:** R. Budapest, 6000, f/d "Castle" card w/meter band as "50.00" and green/white/red pennant in 39 days. No rp. (Valko-IA); f/d black "Globe" card in 2 weeks. No rp. (Poole-GA): 7215, f/d "RBSWC" card in 2 months. No rp. (Haas-WJ): 9585, same f/d card in 32 days. No rp. (Benner-IL).

**ICELAND:** R. Reykjavik, 12175, f/d card in 300 days after 5 f/ups, stamps, 4 IRC's, additional tape rpt, etc. V/s Mrs. Dora Ingvadottir. They returned the tape. Country #202! (Young-CA).

**INDONESIA:** IRIAN JAYA, RRI-Sorong, 4875, f/d and QSL card like Manokwari issues in 17 days for Indo rpt. No rp. I knew this one would have to come clean soon. Indonesian #44, too! (Cosier-AUST).

**KALIMANTAN, RPDK-Ketapang, 5605, Indo verie letter and xerox info sheet with antenna and xmsn details in 13 weeks. V/s Mrs. Nyauli. This lowers my lowest Asian QRP to 100 watts. (Cosier-AUST).**

**INDIA:** AIR, 3223-3imla, verie letter w/o time in 29 weeks after f/up and a total time of almost 1 year. V/s S.K. Sharma. Now for kohina! (Cosier-AUST): 9525-Aligarh, f/d "City Palace" card in 10 1/2 months. No rp. (Noonan-WI).

**IRAN:** V. of Iran, 9022, f/d "Zahedan TV" card and pennant I requested in 29 days. No rp. (Valko-IA); f/d "Azarbaijan IV" card and pennant in 34 days for 1 IRC. (Dammeyer-WY); f/d card and pennant in 4 months. No rp. (Hamilton-NC).

**ISRAEL:** IBA, 5900, f/d "Jerusalem by Night" card, sked, rpt form in 41 days for 2 IRC's. (Smith-CH): 17665, same f/d card and sked in 42 days. No rp. (Ebert-WI).

**ITALY:** RAI, 9575, f/d "Michaelangelo" card in 6 1/2 months for 1 IRC. (May-WY); "Amore e Psiche" card in 27 days for 1 IRC. (Giasini-ALB).

**JAPAN:** R. Japan, 9585, "Hamakuri Snow Hut" card, R. Japan News, sked and rpt form in 27 days for 33 stamps for a collector. No rp. (Marshall-WB): 11800, "Hakata Doll" card w/o time, maps, rpt form and personal note asking for comments received in 16 days. No rp. (Schulman-WY): 15105, same card in 21 days. No rp. (Lyatt-PA); card w/o time, sked, map and tourist info, questionnaire and rpt form in 29 days. No rp. (Myers-AZ).

NHK, 3259-Senda, card w/o time in 14 days after 2nd f/up. First two rpts were answered with a letter saying 3259 kHz was not on at 1230-1300', but a xerox of their sked saying otherwise soon remedied that! (Cosier-AUST).

**JORDAN:** R. Amman, 9560, f/d card, letter and Jordan stamps in 40 days for 2 IRC's. V/s Khalil Al-Subakey. (Lyatt-IA): 7155, beautiful color scene card and sked in 10 weeks. No rp. (Cosier-AUST).

**KAZAKH SSR:** R. Moscow via Alma Ata, 15210, f/d "CKKA" card in 5 weeks for a tape of 15210 kHz Tamil xmsn to South Asia. Alma-Ata typed on the card! I also note that they list freq as 15210 kHz. They did not round off in MHz! Enclosed letter signed by Mrs. Vera Svetlova. (Sgrulletta-WY).

**KENYA:** V. of Kenya, 4915, aerogramme QSL with photos in 6 weeks for mint stamps and postcard. (Abraham-IL).

**KOREA (N):** R. Pyongyang, 7203, "Revolutionary Opera" card, cloth pennant, set of "Song of Mt. Kungang-san" opera postcards, sked, badge and an illustrated book titled "Children" received in 3 weeks. (Iadula-AUST).

**KUWAIT:** R. Kuwait, 9555, f/d "Castle" card in 31 days. No rp. (Peterson-CT): 9580, f/d folder card in 49 days for EE rpt. No rp. (Durden-GA).

**LIBERIA:** ELWA, 11945, f/d "Native Drummer" card in 54 days for 1 IRC. (Crater-KE); same f/d card in 77 days for 2 IRC's. (Durden-GA).

VOA-Monrovia, 15445, f/d card in 6 days. No rp. (Noonan-JI): 7195, f/d "Capitol" card and EE skeds in 6 days. No rp. (Poole-GA).

LIBYA: PRBC, 6185, EE letter w/date in 23 days for EE rpt on AA xmsn, 2 IRC's and used US stamps. V/s B.G. Buzed. (krueger-FL).

LITHUANIAN SSR: R. Vilnius, 9610, f/d card in 43 days. No rp. (Alm-BC).

MALAGASY REP: R. Nederland Relay, 11730, f/d "Harry van Gelder" card in 21 days. No rp. (Marshall-ND); f/d card in 14 days for 1 IRC. (Crater-ES).

MALTA: Vox Fidei, 9670, f/d card in 4 weeks. No rp. This station is the mysterious "Stimme des Glaubens" that no one could get an address for. Vox Fidei is affiliated with R. Messias but is not the same station. Address: Vox Fidei, Postfach, CH-8040 Zurich, Switzerland. (Cosier-AUST).

AWR, 9670/9745, cards showing scenes and activities of Seventh Day Adventists in 12 and 6 weeks for 1 IRC. (Padula-AUST).

MARTINIQUE: FR3, 3315-Fort de France, ORTF "Beach Scene" cards verifying 2 FF rpts on FF xmsns in 189 and 44 days. No rp. (Gionet-ND).

MEXICO: R. Universidad de Sonora, 6115, card listing power as 1000 watts in 14 days for SS rpt. No rp. (Myers-AZ). Very nice, Cliff.

MONACO: TWR, 7105, f/d card and pennant in 1 month. No rp. (Hamilton-SC).

MOROCCO: VOA-Tangier, 7190, f/d card in 14 days. No rp. (Bishop-PA).

NETHERLANDS: R. Nederland, 9715, f/d "Harry van Gelder" card in 10 days. No rp. (Gaffin-NY): 9895, "Eddie Startz" card in 3 weeks for rpt on test freq. (Padula-AUST).

NETHERLANDS ANTILLES: R. Nederland Relay, 6165, f/d "Harry van Gelder" card in 12 days for 1 IRC. (Fraser-PA): 9630, same f/d card w/freq as "9660" in 17 days. No rp. (Noonan-WI); card in 10 days. No rp. (Dalrymple-AUST).

TWR, 11815, f/d card in 3 weeks for 1 IRC. (Peterson-CT): 11925, f/d "PJB" folder and sked in 16 days for 1 IRC. (Gaffin-NY); f/d card in 2 months. No rp. (Hamilton-SC).

NEW CALEDONIA: FR3, 7170, f/d orange/blue map card for EE/FF rpt and 2 IRC's. I have been trying to verify this for 4 years with 5 or 6 rpts. Country #100 verified! (Seymour-NC).

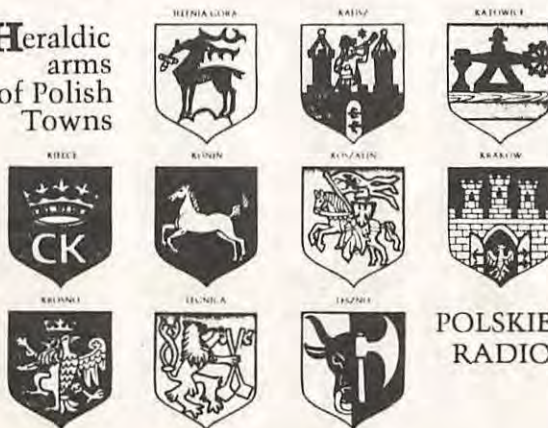
NEW ZEALAND: RNZ, 11705, f/d card in 2 months. No rp. (Hamilton-SC): 11780, f/d "Harbor View" card in 1 month for 2 IRC's. (Peterson-CT): 15130, f/d "Mountain Lake" card in 5 weeks for 1 IRC. (Kinnaly-IA).

NIGERIA: V. of Nigeria, 7275, date-only "Flag" card in 4 weeks. No rp. (Seltzer-ONT); card in 150 days for 2 IRC's. (Biasini-ALB); card, sked and booklet on Nigeria in 20 days. No rp. (Schneck-IC).

NBC, 3396-Kaduna, card and letter giving site in 1 month for 1 IRC which they returned. V/s Oise-Oghaede. (Sgrulletta-NY): 4990-Lagos, f/d "Flag" card and VCN sked in 26 days for 1 IRC. (Gaffin-NY); same in 1 month for 2 IRC's. (Benner-IN): 4900-Sogunle, f/d letter giving site as Sogunle and advising me that this was a Home Service broadcast in 67 days. No rp. They included an External Service sked. (Schulman-NY).

NORWAY: R. Norway, 15175, f/d "Winter Scene" card and sked in 18 days. No rp. (Ward-MB): 15345, same f/d card, NRK bulletins, and answer to query in 27 days. No rp. (Fraser-PA): 9605, same card in 4 weeks. No rp. (Cosier-AUST).

## Heraldic arms of Polish Towns



POLSKIE  
RADIO

**PAPUA NEW GUINEA:** NBC, 4690, f/d brown/white/yellow NBC map card in 33 days for 3 IRC's. (Hoffman-PA); QSL card in 40 days. (Schneck-NC); f/d card in 1 month for EE rpt. No rp. (Hamilton-SC); f/d map card and PNG tourist info in 34 days for EE rpt and 2 IRC's. (Ray-NY).  
 R. East Sepik, 3335, f/d personal letter in 34 days for 3 IRC's. V/s Faul Kafafi said sked would be sent when available. (Rude-CA).  
 R. Milne Bay, 3360, letter in 1 month on 3rd try for an SASE which was not used. (Field-MI).

**PARAGUAY:** R. Charitas, 6110, SS letter and pennant in 2 months for an SASE which was not used. Letter apologized for the delay! (Field-MI).

**PERU:** R. Madre de Dios, 4950, letter in 3 months on 2nd try for an SASE which they used for the reply. (Field-IL).  
 R. Nacional, 6082, verie letter and postcard in 4<sup>th</sup> weeks for SS f/up rpt. V/s Edna Almandoz M. (Cosier-AUST).

**PHILIPPINES:** R. Veritas, 11800, "Quezon City" card, sked and greeting card in 3 weeks for 1 IRC. V/s Mrs. Connie C. Javier. (Padula-AUST).  
 FEBC, 11765, "Jungle River" card, sked and program booklet in 3 weeks for 1 IRC. (Padula-AUST).  
 VOA-Tinang, 11760, f/d "Capitol" card and freq sked in 9 days for 13¢ stamp. (Dubrick-IL).

**POLAND:** Polish Radio, 9675, card in 2 months. No rp. (Dalrymple-AUST).

**PORTUGAL:** R. Portugal, 6025, card and sked in 25 days. No rp. (Schneck-NC): 15340, f/d "Metropolitan Church" card in 31 days for 1 IRC. (Frank-SASK).  
 IBRA, 9670, f/d card, sked, pennant and religious info in 23 days. No rp. (Schulman-NY); f/d "IBRA" card, pennant and info in 3 weeks. No rp. (Overcamp-SC).  
 Stimme des Glaubens (Vox Fedei), 9670, large card in 11 days after f/up and 10 months after original rpt. (Cosier-AUST).  
 AWR, 9670, f/d "German Hospital" card, sked and newsletter in 34 days for EE rpt and 2 IRC's. (Krueger-PL).

**RHODESIA:** RBC, 3396, large QSL card in 22 days for 2 IRC's which were returned. VIC #111! (Wiles-V); f/d new large card and old "Gazelle" card which I requested in 2 weeks for a local postcard. No rp. (Seymour-NC): 3306, large f/d card in 3 weeks. No rp. (Overcamp-SC): 2425, same f/d card in 17 days for 1 IRC. (Mayer-IL).

**ROMANIA:** R. Bucharest, 15250, f/d card and sked in 4 months. No rp. (Crater-KD): 9570/5990, "U.N. Square" and "Victory Street" cards in 130 days. No rp. (Fechan-CT): 9510/15250/15365, 3 cards and pennant in 2 months. (Barto-CT).

**RWANDA:** DW Relay, 15150, no-data card and copy of "Hallo Friends" mag in 2 months for EE aerogramme rpt. No rp. (Gaines-CT).

**RYUKYU IS:** VOA-Okinawa, 7165, f/d "Capitol" card and EE Svc skeds in 5 days. No rp. (Gaffin-NY); same f/d card in 1 week. (Overcamp-SC).

**SEYCHELLES:** FEBA, 9510, f/d map card, sked that still doesn't show this freq, small religious handout, note and 16 used stamps, mainly English, in 13 days for EE aerogramme rpt w/request for stamps. (Sarrazin-CC); f/d card in 3 weeks for EE rpt on EE ident and AA xmsn and 1 IRC. (Seltzer-ONT); f/d card, sked and religious info in 23 days for 1 IRC. Four nice stamps were on the envelope. (Frank-SASK): 9725, f/d orange map card in 21 days for 2 IRC's and tape rpt. (Luce-TX).

**SIERRA LEONE:** SLBC, 3316, f/d card in 7 weeks. No rp. V/s B.D.H. Taylor. No xmtr site but "250 kw" = Waterloo. (Cosier-AUST)

**SINGAPORE:** R. Singapore, 6155, purple f/d QSL with red/green/blue "RTS" logo. Rather ugly! (Abraham-MI). How long, Larry? wee

**SOMALI REP:** R. Hargeisa, 11640, f/d "Hargeisa Studio" card and personal note from Abdo' Ahmed in 356 days for 4 IRC's and rpt sent by registered mail. Reception was on 11646v khz. (Young-CA).  
 R. Mogadishu, 9585, black/white SBS card in 4 weeks for EE rpt on AA xmsn and 2 IRC's. (Schoenfeld-CT); "Antenna/Emblem" card w/o time in 51 days for EE rpt, personal letter and postcards. QSL card verified total air time, not my reception time. (Sarrazin-CC).

**SOUTH AFRICA:** R. RSA, 9585, f/d "Diamonds" card in 25 days for 1 IRC. (Folle-GA); same f/d card, sked and "RSA Calling" in 20 days. No rp. (Frank-SASK); f/d card in 30 days. No rp. (Myers-AZ): 3995, f/d card in 3 weeks for EE rpt. No rp. (Seltzer-ONT).

SABC, 4810, f/d "Industrial Montage" card in 20 days. No rp. (Durden-GA); f/d "Supreme" card in 26 days. No rp. (Gionet-NB): 3980, f/d card in 1 1/2 months. No rp. (Hamilton-SC).

**SPAIN:** RTVE, 6080, f/d "Toledo Antenna" card, rpt form and sked in 18 days for 1 IRC. I QSLed their shifted freq which they acknowledged. (Fraser-PA): 6065, card, travel brochures, pennant and rpt form in 45 days. (Schneck-NC)

**SPANISH SAHARA:** RNE Relay (R. Sahara), 11805, RNE QSL from Madrid for f/up to Madrid. Also received pennant. Three rpts total to Sahara and finally Spain in 20 months. Nice to have this one! (Abraham-MI).

**SRI LANKA:** SLBC, 15425, personal no-data letter in 7 months for rpt on EE xmsn and 1 IRC. V/s Mahinda Ramanayake wants to start a pen-pal relationship and trade tapes of music. (Rockwood-OH): 9720/15425, two cards and sked in 9 weeks for rpt sent to Superintendent of Engineering. (Barto-CT).

AWR, 9720/15425 "Medical & Welfare Work" and "Church Work Around the World" cards in 7 weeks from AWR HQ in Lisbon. (Padula-AUST).

VOA-Colombo, 11935, f/d card in 4 days. No rp. (Bishop-IA).

**SWAZILAND:** TWR, 11955, f/d folder QSL, sked and religious material in 3 weeks for rpt on FF xmsn and 2 IRC's. V/s Jeanne Olson. (Rockwood-OH).

Swazi Commercial Radio, 3223, no-data letter from Robin Fisher in 20 days for f/up rpt to Johannesburg address as 4 tries to Libane were not successful. No rp. Letter says, "We are a small station and don't have QSL's." (Cosier-AUST).

**SWEDEN:** R. Sweden, 6120, f/d card, sked, rpt form, SCDXers, and K. Sweden mag in 9 days. No rp. (Frank-SAGE); f/d map card and pennant in 8 weeks. No rp. (Kinnaly-MA): 15305, f/d yellow/blue map card with xmtr locations, sked and pennant in 16 days for 1 IRC. (Dammeyer-NY).

**SWITZERLAND:** SBC, 15140, f/d "Two Bobs" card in 83 days with message saying sked is on the way. Sent EE rpt and 1 IRC. (R. Brown-OH); same card in 1 month for 1 IRC. (Benner-IN); same card and sticker in 26 days for aerogramme rpt. No rp. (Hoffman-PA); date-only "Lake Lucerne" card in 65 days for EE rpt and 1 IRC. (Fraser-MA).

from  
ADAM  
GAFFIN

and

SAM  
BARTO



Südwestfunk  
Anstalt des öffentlichen Rechts

QSL

**TADZHIK SSR:** R. Moscow via Dushanbe, 7135, cards in about 1 month for no rp received by Barto-CT, Field-MI, Herkimer-NY, and Meehan-CT.

**TAHITI:** R. Tahiti, 15170, "Native Girl" card w/o freq in 23 days for 1 IRC. (Crater-KS); card w/o freq in 4 weeks for 2 IRC's. (Seltzer-ONT).

**TAIWAN:** V. of Free China, 15345, f/d "City of Cathay" card and sked in 30 days for EE rpt and 2 IRC's which were returned. (Alm-BC): 15425, same f/d card in 3 weeks. No rp. Personal letter from Caroline Shin-Ru Jan requesting comments and rpts followed. (Overcamp-SC); f/d "Yellow Jade Double Vases" card and 2 mint Taiwan stamps in 26 days. Two days later I received the "Cathay" card with same data and sked. All for 1 EE aerogramme rpt with request for stamps. No rp. (Sarrazin-CO).

**THAILAND:** R. Thailand, 9655, card in 4 months for 1 IRC. (Dalrymple-AUST).

**TOGO:** R. Togo, 5047, f/d map card in 25 days for FF rpt and 1 IRC. (Seymour-NC); f/d Map/Logo card in 1 month for 1 IRC and Gilfer form. (Kinnaly-MA): 3222-Lama Kara, color "Emblem" QSL in 3 months for 2 IRC's. (Abraham-MI).

**TUNESIA:** RTVT, 15225, f/d card in 6 weeks for EE rpt on AA xmsn and 1 IRC. (Seltzer-ONT): 7225, "Evening Oasis Scene" card in 2 weeks for 1 IRC. (Padula-AUST).

**UGANDA:** UBC, 9730, mimeo verie letter with info in 3 months for 2 IRC's and

postcard. It took 2 tries to get this one. (Abraham-IL); letter in 7 months. V/s C. Warugaba. (Barto-CT): 15325, form letter w/o time in 22 days for EE rpt and 2 IRC's. Address: External Service, UBC, P.O. Box 2058, Kampala, Uganda. (Seymour-NC).

UKRAINIAN SSR: K. Kiev, 7150, f/d "Institute" card in 57 days. No rp. (Durden-GA); f/d "Bogdan Khmelnytsky Square" card, sked, rpt form and two pocket calendars in 41 days. No rp. (Fraser-IA).

R. Moscow via Kiev, 6020, card in 1 month for rpt on L.A. Svc. (Barto-CT). Via Vinnytsa, 5940; via Lvov, 6125, "Space Monument" and "Kremlin" cards in 43 days. (Mechan-CT).

UNITED STATES: VOA-Dixon, 11740, f/d card in 7 days. No rp. (Boole-GA). VOA-Bethany, 21485, f/d card in 9 days. No rp. (Loonan-WI). VOA-Delano, 15250, f/d card in 4 days. No rp. (Bishop-IA). VOA-Greenville, 15205, f/d card in 4 days. (Bishop-IA). WYFR, 6155, f/d card, religious info and sked in 17 days for 13c stamp. (Myers-AZ): 15150, f/d "Mike" card, newsletter, sked and nice letter in 12 days. No rp. (Swanson-IA).

KGEL, 9520, f/d card, sked and religious info in 27 days for EE rpt on SS xmsn. No rp. (Myers-AZ): 9615, f/d "San Francisco" card in 32 days for EE rpt on SS xmsn and 1 IRC. (Cohen-KJ).

WNBB, 15375, f/d card and sked in 15 days for 13c stamp. I finally have 15 religious stations! On the sked, reference is made to "the late Rev. John M. Morris." I'm glad he signed the QSL first. (Rockwood-CA); f/d card in 10 days. No rp. (Hamilton-SC).

UPPER VOLTA: Rdiff. TV Voltaique, 4815, letter-form QSL w/date and time in 154 days for FF rpt on FF xmsn and 1 IRC. QSL postage = 50 F. (Glonet-WB).

URUGUAY: R. Garve, 6155, SS letter and pennant in 2 weeks for SS aerogramme rpt. No rp. Very pleased to log this! Has anyone else QSLed this station? (Gaines-CT). It's a new one for me, David.

UZBEK SSR: R. Tashkent, 6025, f/d map card in 42 days. No rp. A very nice card. (Cohen-KJ); mags in 5 weeks and f/d card 1 week later. No rp. (Seltzer-ONT); f/d "Chime Tower" card and beautiful postcard in 49 days for 1 IRC and local postcard. (Hoffman-IA): 9600, f/d card and postcard in 3 months for 1 IRC. (Rockwood-CT)

R. Moscow via Tashkent, 7245, card in 11 months after returning it for site. No rp. (Field-IL).

VATICAN: Vatican Radio, 5995, f/d "Antenna" card in 55 days. No rp. (George-TX); card in 13 days. No rp. (Schneck-IC): 9605, f/d "Statue/Cross Antenna" card in 12 days for EE aerogramme rpt. No rp. (Sarrazin-CC).

VENEZUELA: R. Impacto, 3355, QSL card 1 year after SS rpt and mint stamps and 2 months after 3rd f/up. (Lazarus-LA). Very nice, Henry.

R. Reloj Continente, 5030, no-data form letter in 7 1/2 months for SS rpt and 1 IRC. V/s Lourdes Torres. (Gaffin-WY).

R. Mundial, 5050, white QSL with "YVKE - Mundial" colored logo in the corner in 4 months for SS rpt and mint stamps. (Abraham-IL).

Nueva Esparta, 2340, card with date and wrong freq (920 kHz) in 2 months. No rp. (Rude-CA).

YVTO, 6100, freq-only card in 2 months for 1 IRC. (Kinnaly-PA). Ecos del Torbes, 4980, business card and pennant in 45 days for 1 IRC. (Rude-CA); same in 102 days for SS rpt. No rp. (Pikell-IL).

R. Juventud, 4900, f/d "Dancers" card w/o time in 44 days for SS rpt and 1 IRC. (Durden-GA); f/d card in 32 days for SS rpt and 1 IRC. Another identical card arrived two days later. (Schoenfeld-CT).

R. Rumbos, 4970, f/d "Guaica Indian" card in 7 months for SS aerogramme rpt. (Herklimer-WY); f/d "Caracas" card in 77 days for SS rpt, 2 IRC's and postcard. (Alm-BC); f/d EE "Bolivar Statue" card in 8 months for NASWA SS rpt and used stamps. (Sarrazin-CC); f/d "City Highway" card in 9 months. No rp. (Rude-CA); f/d EE card in 5 months for EE rpt and mint stamps. (Overcamp-CC).

ZAIRE: La Voix du Zaire, 15245, letter with only date in 6 weeks for FF rpt on FF xmsn and 1 IRC. EE rpt sent earlier was ignored. (Seltzer-ONT); same verie with sked on a long mimeo sheet in 63 days for EE rpt on 2nd try. No rp. (Dubrick-IL).

COMPUTOR TROUBLE: Bob Wiles-WV writes that every 6 months he gets a card from the Deutsche Welle for a rpt he sent them in 1975! And Mike Nicolosi reports a Deutsche Welle QSL with no envelope, no data and no postage! Even his street was spelled wrong...and that's all. Happy Spring!

Deadline for May issue: April 16.

Deadline for June issue: May 14.



# DX HOTLINE

We are sorry to report that there is no DX Hotline section this month. John Moritz, who had been editing DXH since August, 1976 tendered his resignation effective with the March issue. For that samereason, there was no mid March DXH published since time did not permit finding a replacement editor.

Until such a time a suitable replacement editor can be appointed, DXH will be away from the scene. We hope it can return soon.

For those who subscribe to the mid month DXH, some arrangement will be made whereby they will receive the full twelve copies they have paid for. In the event mid month DXH is not resumed at some future date, an arrangement for refund of unused portions of their subscriptions will be made. It would simplify matters if those whose subscription to DXH is about to expire would not renew the DXH portion of their membership until it is announced that subscriptions are once again being accepted.

In view of the above announcement, it is evident that a replacement editor is needed as soon as possible. We urge anyone who feels that he/she might be qualified to contact HQ as soon as possible for more details. Your support is needed if DX Hotline is to continue!

TOPLINE TIP: Surinam: on SWBC again... Stichting Radio Groep Suriname, "SRS" Radio was hrd on 3/25 from 0140-0330\* (3/26 s/of was \*0400), on 4780khz. with Dutch programming with EE rock and SS pops, ID at 0227 in EE, SS, DBTch with request for reception reports to Radio SRS, PO BOX 271, Paramaribo, Surinam, strong signals with QRM from the Venezuelan, intentional SWBC broadcast with mentions of SW and beams to other areas, was parallel MW 725 after 0300. ♪ this tip via phone call from editor Jerry Lineback, also hrd by Bill Whitacre in Michigan and Jim Ronda in Ohio, also on 3/26 by your publisher.

Publisher's Notes: - I have on hand over 2 pages of "helping hands" which I will use as space becomes available. Our editors have left no room in the past two months for many ads. If anyone has sold an item awaiting printing in FRENCH and wants that item withdrawn before being printed write to PO Box 321 in Park Forest.

HELPING HAND: For Sale: For those who missed the special pre-publication offer on WRTVH 1977, copies are available after publication at \$8 postpaid Book Rate. Additional copies \$7 each ordered at the same time to the same address. Make check or money order payable to Donald Erickson and include SASE for confirmation. Allow 6 weeks delivery. Donald Erickson, 6059 Essex Street, Riverside, CA 92504.

HELPING HAND: For sale. Allied SX-190 in good condition, recently realigned, 60 meter crystal extra. Best offer. Contact Peter Taylor, RR #1, Campbellville, Ont., Canada LOP 1E0 or call 416/854-2614.

HELPING HAND: For sale. Drake SPR4, 15 months old in mint condition, only basic equipment. Original instruction manual and parts list, shipping and insurance prepaid in Canada. Best offer will be accepted, give it a try. Contact Ciro Guarducci, P.O. Box 173 Cassiar, B.C., Canada VOC 1E0 or call 604/778-7345 after 5:30 PM PST.

# log report

## section



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1605-4900 kHz.

APRIL 1977

Now if I could just get my hands on enough money to buy one of these IBM specials, this section would look this good every time. As it is, I'll have to stick with an SCM portable. This seems to be a slow month as far as loggings go, but there are still a lot of interesting things bouncing around up there in the sky, so onward Hammarlund, onward Drake, onward Yaesu, onward Collins, Allied, Barlow-Wadley, and most of all -- LR-A !!

- 2040 GUATEMALA R. Miramundo; 0320 to 0410\* w/mx pgm, ID's two times included SW freq but couldn't understand (Field 2/26) SW listed 6010--DR
- 2340 NEW BRITAIN R. West New Britain; 0900 barely audible but fade/in pattern is the give-away; other 120mb PNG appeared same time( Laves 3/5) 0920-0930 in poss. Pidgin, M ancr, crowd chanting (McLaughlin 2/26)
- 2425 RHODESIA RBC; 0400-0410 EE, African nx, //3306 (Mayer 2/9)
- 2430 CHINA PLA-2; 1405 CC w/mx an-d tik (Bryan 3/3)
- 2468 PAPUA NEW GUINEA R. Northern District; 1215 fading, w/W ancr and Pacific tunes (Whitacre)
- 2475 CHINA Hangzhou; 1350 CC M w/tik (Uerlings 3/5)
- 2490 CHINA PLA-Fouzhou; 1345 CC W singing (Uerlings 3/5)
- 2500 UNID USSR; weak M&W in tik continues to be noted; no ID or IS or pips and always JY QRM; Junqua believes USSR 2x1250 (Hardester 2/22) 2320-2340 SS, fast LA vocals QRMing WWV (Krueger) No time given for first log--DR
- 3204 NIGERIA NBC-Ibadan; 2330 EE, W w/ID 2300, into nx (Hammer)
- 3205 INDONESIA RRI-Gorontalo; 1015 Indo w/lcI songs (nice!) and ID 1020, no sign of Bandung (Cosier 3/3) QRM fm one other stn, either Bandung or supposed new PNG outlet here: all at 1237 lcl pops, M ancr past 1300 (Whitacre) 1339 w/Indo tiks by W over Bandung (Laves 3/4) Laves says //4900--DR
- 3215+ CELEBES RRI-Ujung Pandang; 1005-1400 Indo, no nx relays but some RRI ID's - R. Yeo says possible 2nd network; does seem Sulawesi/Irian Jaya (Cosier 2/16-3/4) 1230 suspect this one, M ancr in Indo, lcl pop song (Whitacre) 1302 w/nx in Indo //4719 and //3250; after nx played Song of the Coconut Islands 1312 (Laves 3/4)
- 3220 PAPUA NEW GUINEA R. Morobe; 0847 in lang M w/tik and lcl mx (Uerlings 2/21) 1240 Pidgin, mx (Lineback 2/26)
- 3220 CHINA Beijing HS; 1325 CC, M&W in play (Uerlings 3/5)
- 3223 BALI LESSER SUNDA IS RRI-Mataram; 1220 w/pr sigs, Indo pops, M DJ (Whitacre)
- 3225 SUMATRA RRI-Tanjungpinang; 1345 M singing Indo, UTE/Tanjung QRM; M w/ID @ 1402 but no Song of the Coconut Islands 1400 (Laves 1/23)
- 3232 SUMATRA RRI-Bukittinggi; 1525 Indo, anmts, ID and light mx--much more powerful two weeks ago! (Cosier 2/21)
- 3240 PAKISTAN RP; \*1358 in lang, IS 1358, into lang w/nx listed Dari; if this is an overseas svc, is it Karachi or Quetta? (Cosier 2/26) 1500 nx in Urdu //4790, is listed Quetta (Willis 2/20)
- 3240 PERU R. America; 0600 SS, M and mx, ID (Uerlings 3/4) 0902 SS tiks, LA mx, M w/ID and TC for GMT-5 (Laves 3/5)
- 3240 SWAZILAND TWR; 0350-0410 in lang w/M, many hymns and choral music in EE, faded by 0410 (Gionet) 0406 lang, hymns, rel. px (Florian 2/19)
- 3244+ IRAQ RB;0006 in AA mx, M in AA tiks (Fedor 2/23) Is this correct time?--DR
- 3245 VENEZUELA R. Libertador; 2315-0340 w/SS and AA px "Voz de Arab" and AA mx at 0030-0100; otherwise LA mx, SS tiks, anmts (Krueger, Bryan, Hammer, Uerlings) My mistake, but for 3244 Iraq, is most likely Libertador as Iraq not listed this early, and AA shows for Libertador as above --DR
- 3245 PAPUA NEW GUINEA R. Gulf; 0845 in lang, M w/vocal mx (Uerlings 2/21) 1152-1200 string type island mx, some Pidgin anmts (Barto)
- 3250 SOUTH AFRICA SABC; 0245 EE mx px (Grenier 2/27) 0247-0300\* mx, ads (Earhart) 0305 pops, M DJ (Bryan)
- 3250 KALIMANTAN RRI-Banjarmasin; Indo tiks 1400, Song of Coconut IS (Laves)

- 3255 VENEZUELA LV del Tigre; 0337 M in tlc, ment Caracas, LA mx (Bryan) 0456 SS, LA mx (Uerlings 3/5)
- 3255 INDIA AIR-Delhi; Good lvl in Hindi 1500, EE at 1530 but QRM Indo on 3252 (Willis) 1502 in lang, chanting w/Indian mx (Uerlings)
- 3260 CHINA (T) Guizhou; presumed the one here CC sing-song, M&W tlc, too weak for ID, but TS 1257 (Brookwell 2/21)
- 3260 PAPUA NEW GUINEA R. Madang; 1211-1230 M ancr in Pidgin and lcl tunes (Whitacre) 1240 Pidgin w/vocals and anmts (Lineback 2/26) 0755 in Pidgin, pops, M ancr, nx (Uerlings 2/26)
- 3260 ECUADOR LV del Rio Carrizal; 0334\* SS, "Musica nacional" two ID's at 0330, NA 0332 (MacKay 2/26)
- 3265 UNID 2330-2345 M ancr sounded like EE, EL mx (Whitacre) I doubt Demerara, but then T'm naturally pessimistic--DR hi
- 3270 BENIN LVR; on 3/6 //4870 to 2259\*, FF tlc, pops and revolutionary yells; 4870 off between 2228-2234 (Whitacre)
- 3275 VENEZUELA R. Mara; 2320 SS, LA pops (Hammer) 0343 LA mx, M DJ (Bryan)
- 3275 INDONESIA UNID; 1340 w/QRM from 3277 India/Indonesia, this in Indo w/M anmts, some light mx, but def Indo lang-not hrd before (Cosier 2/24)
- 3275 PAPUA NEW GUINEA R. So Highlands; 0905 lang, M w/vocal mx (Uerlings) 1245 Pidgin Tlc, C&W and TCl mx (Lineback) 1235 mx px, no ID (Field)
- 3280 UNID 1345 in lang, stn here at poor lvl w/AA type chants, some light mx, could be Indo/India or anywhere else in SEA! (Cosier 2/26)
- 3284 BELIZE RB; 1130 w/morning px, EE tlc and pops (Whitacre)
- 3285 BELIZE RB; 1115-1206 EE, tlc and mornng greetings (Miller, Pyatt)
- 3285 SOUTH AFRICA SABC; 0453-0510 EE, mx, ads (Earhart)
- 3285.7 BRAZIL R. Olinda; 0705-0723 PP, ads, promos, ID 0720, slogan is .."mais popular" LA (Braz.) ballads (McLaughlin)
- 3290 PAPUA NEW GUINEA R. Central; for 1st time, 1211 M ancr and def island type mx (Whitacre)
- 3294.5 KALIMANTAN RRI-Samarinda; 1354 Indo ballads; after 1400 ID, chimes, another ID, soon faded out (Laves 1/23)
- 3295 VENEZUELA R. Trujillo; 0209 SS, tlc, ID, TC, mx (Breedent)
- 3306 RHODESIA RB; 0345-0420 EE/vern tlc, EE ID and nx 0400, pops (Shutola, Gaffin)
- 3315 ECUADOR R. Pastaza; 0345 SS, much mx w/o anmts, soft spoken M DJ, ID 0400 w/NA to 0404\* (Breedent 2/22)
- 3315 MARTINIQUE FR3; 2355 FF, mx, ID, tlc by M & W (Fedor) 0130 FF tlc (Pyatt) 0320-0335 FF, M w/ID then FF mx (Mayer)
- 3316 SERRA LEONE SLBS; 0014\* EE, rel. px from US, ID 0012, NA to 0014\* sked this late on lcl Sat only (after 0000 lcl Sun) (Breedent 3/6)
- 3322 PAPUA NEW GUINEA R. N Solomons; 1147-1212 pop and island mx, chimes, Pidgin anmts (Smith 3/5)
- 3325 INDONESIA RRI-Palangkaraya; 1118 Indo, Indo mx and anmts by W, ID 1125, RRI Jayapura \*1130 causing a mess--thanks for Yeo for tip on this (Cosier) 1505 in Indo, M w/nx (Uerlings) Uerlings says Jember t-his time--DR
- 3325 VENEZUELA R. Monagas; \*1010 SS, s/on over another SS stn (Hammer)
- 3325v GUATEMALA R. Maya de Barillas; 0200-340\* SS/Indian, hymns in EE and SS, tlc, TC's, sudden s/off 0340 after song (Gaffin, Cress)
- 3330 PAKISTAN Peshawar; 1517 in lang, sub-cont mx (Uerlings)
- 3335 PAPUA NEW GUINEA R. E Sepik; 0915-1305 pop and island mx, chimes, tlc by M&W choral mx, anthem at s/off (Smith, Uerlings, Lineback, Field, Florian)
- 3339† ZANZIBAR RTZ; 0414 Swahili, native mx, tlc by M--this fits w/other rpts for this one, but still TENT (Florian 2/19) Mozambique also poss--DR
- 3345 BRAZIL R. Educ Uberlandia; 0105 PP tlc by M, frequent fast ID's (Laves 3/6)
- 3355 INDIA AIR-Kurseong; W in EE world nx 1528, M in lang tlc fm 1515-1528, 6 pips, ID and into nx; QRM de CC on 3360 (Hardeste-Okinawa)
- 3355 NEW CALEDONIA Noumea; 0911 FF, M w/EE mx (Uerlings)
- 3360 CHINA Taiwan Svc; 1315 in presumed CC, mx, tlc--Peking? (Laves)
- 3360 PAPUA NEW GUINEA R. Milne Bay; 0917-1259\* EE/Pidgin, pops, lcl mx, tlc by M at s/off (Florian, Uerlings, Lineback, Bryan)
- 3360 GUATEMALA LV de Nahaula; 0248-0335 SS, LA mx, tlc (Golden, Bryan, Dubrick)
- 3365 VENEZUELA R Puerto La Cruz; 0323-0357\* LA mx, ID's, ID and anthem at s/off, also many TC's (Bryan, Breedent, Uerlings, Golden)
- 3366 GHANA GBC; 2249-2309\* EE, nx football scores, rel. px (Gaffin) 0600-0612 EE, m w/FTlc, nx (Florian, Lineback)
- 3375 ANGOLA R. Nac; 0513-0533 PP, ballad mx w/guitar, ID 0518 (McLaughlin)
- 3380 MALAWI MBC; 0258/on to 0426 in Chichewa/EE, rooster and drum IS, ID 0258 into tlc, lcl singing, drums, frequent TC's in EE (Herklimer, Breedent, Krueger, Earhart, Bishop)
- 3385 PAPUA NEW GUINEA R East New Britain; 0920-1259\* in Pidgin, M in anmts, tribal mx, time pips, NA at 1300 (Lineback, Uerlings, Field, Florian, Smith)

- 3385 FR. GUIANA FR3; 0325-0505\* FF, mx; on 2/13 special Xmsn because of Carnival in Cayenne says Gionet (Gionet, Mayer) 0859-0920 IS guitar, NA, FF ID by M and much FF pop mx; rooster crowing 0915 - "Ici Cayenne" (McLaughlin, Herkimer) No, the rooster didn't crow Ici Cayenne--DR
- 3385rf INDONESIA RRI-Kupang; 1330 Indo, back here at exc lvl ex 3550 w/W in anmts, ID (Cosier) 1505 Indo, M in tik (Uerlings)
- 3385 VENEZUELA R. Barcelona; 2349 LA mx, SS tiks, ID's (Breeden)
- 3390 INDONESIA RRI-Singaraja; 1535 In lang, W singing (Uerlings) Listed 3395 WRH--DR
- 3395 ECUADOR R. Zaracay; 0310-0540 SS, ID's, light mx, tiks (Dubrick, Hammer, Bryan, Shotola)
- 3393½ BALI RRI-Singaraja; 1049 Indo, singing by W, soft anmts; Tanjung Karang 3395 just f/in by this time (Cosier 2/20) This out of order, but note above rpt--DR
- 3395 INDONESIA RRI-Tanjung Karang; 1515 Indo, M in- tik or n-x (Uerlings)
- 3395 VENEZUELA R. Universidad; 0355 SS, M DJ w/mx, s/off 0358, (Bryan, Uerlings)
- 3396 RHODESIA RBC; 0400-0440 EE, nx 0400, lcl wx, pops, ads for diamonds, bad HET (7 rpt-rs)
- 3400 CHINA PLA-2; 1240 CC vocals by W (Lineback)
- 3425 NEPAL RN; 0030 Nepali, M in tik, some Asian mx (Bishop) 1422 mx and vocals (Bryan)
- 3450 CHINA HS-1; Peking hrd 1527 in CC, orch mx (Poppin)
- 3494.6t BOLIVIA R. Alfonso Padilla Vega; fair/poor in UTE w/long boring SS tiks, gone mid-word 0226(Laves) Me thinks many are mistaking another stn for Alfonso on this freq; there is a stn here w/SS tiks but it is not a bdest stn! There could be legitimate logs of Alfonso though--DR
- 3500 INDONESIA UNID; 1500 Indo, very good 1458 w/music lcl, Jarkarta nx 1500 (Cosier)
- 3507v INDONESIA RPD Tingkat 2; 1356 Indo, Islamic mx px to 1400 when distinctive 8-10 note IS hrd, then-"Berita 2 daerah" but no ID (Cosier 2/24)
- 3522t MALDIVES RM; 1349 lang, light mx selections, fair lvl; exact 3522-strength suggests Male but could be Indo (Cosier 2/24)
- 3560 N. KOREA Pyongyang; 1524-1527 KK, W in cmtly (Poppin)
- 3603 CUBA (H) LV de Cuba; 0606-0718 SS, LA mx, chimes, ID (McLaughlin) Just in case a real SWBC st-n pops up here--DR.
- 3607.5 JAPAN NHK-Kawaguchi; 1126 vy weak, JJ tiks, M singing to oriental mx(Laves) I believe the DUDXC has a list of these HS stns--DR
- 3888 INDONESIA UNID; 1353 Indo, "lagu 2 melayu" slightly distorted voice audio; list WRH '77 as Batang but could be anything (Cosier 2/29)
- 3892.6 JAVA RPKD Sidoarjo; Weak 1117, little bits of Indo tiks, ARO QRM (Laves)
- 3900 CHINA PLA; 1118 in ARO QRM, rev. mx and tiks in CC; according to TBS this should be Hallar-but it is //3400 so PLA-II (Laves)
- 3905 INDONESIA RRI-Banda Aceh; 1442 Indo, all over AIR w/light Indo mx, ID 1459 then Jakarta nx (Cosier 2/21)
- 3905 ADMIRALTY IS R. Manus; 0800-0900 Pidgin, tiks in EE also, C&W(Field, Schneck, Uerlings)
- 3910 UNID 1308 Indo(t) Indian songs, AA type chants, anmts almost inaudible-could be India I suppose (Cosier)
- 3910 JAPAN FEN; 1050-1423 EE, mx an-d nx (Grenier, Bryan) Not on 2/14-2/19 but back 2/20 at poor lvl; back full strength 2/24-what happen? (Cosier)
- 3915 MALAYSIA BBC-Tebrau; 1512 ID, EE tiks (Poppin, Bryan)
- 3925 JAPAN NSB; 1518-1521 JJ, M in tik (Poppin)
- 3936 JAVA RRI-Semarang; 1057 w/melody, M w/ID 1100 and into nx (Laves)
- 3952 GT BRITAIN BBC; 0445-0452 in GG w/nx, ID 0449 (Earhart) 0700 EE (Schwartz)
- 3960 SULAWESI RRI-Palu; 1400 ID and TC for "22 waktu Bahagian teenah Inilah Radio Republik Indonesia Palu" lcl nx 1400; beware Padang 3961 (Cosier 2/10)
- 3970 JAPAN NHK-Matsuyama; 1025 JJ, px //3607, M & W in JJ tiks (Cosier)
- 3970 GT BRITAIN BBC; 0320 in RR, nx, // 7260, 7285 (Mackay)
- 3975 JAVA RRI-Surabaya; 1051 w/Indo tiks, Islamic chants (Laves)
- 3980 GERMANY (W) VOA-Munich; 0515-0612 EE, Breakfast Show(Gaffin, Bisop, Earhart)
- 3980 SOUTH AFRICA SABC; 0325-0425 ID, pops, ads, tik, (Dettmann, Poppin)
- 3985 LIBERIA VOA; 0330 EE, mx and features (Bishop) 0339 sports, ID (Dettmann)
- 3995 USSR Nikolaevsk; RR 1433 M & W in cmtly (Poppin) RM\_HS 0900, mx pgm (Willis)
- 3999 VIETNAM Hanoi; 1400 HS //4680 (Willis)
- 3999 GREENLAND Godthab; 1038-1057 in Danish, good signal on 2/22 (Barto)
- 4000 AFGHANISTAN RA; 0125-0141 flute IS, M w/ID in Dari, chants (Smith 2/26)
- 4020 PAKISTAN RP; 1400-1600 mixing w/Peking same freq (W1115 2/20)
- 4040 ASIATIC SSR Vladivostok; 0950 semi-class mx, M ancr (Bryan 2/21)
- 4068 CHINA Huhehaote; 1432 Mong. tik by W, patriotic mx (Bryan 3/3)
- 4100 VIETNAM Viet Bac; well hrd this freq 1400, this replaces 4093 and is drifting Xmtr (W1115 2/24)
- 4115 CLANDESTINE V of Rev Reunification Korea; 1400 in EE to 1430\*(W1115)
- 4272 N. KOREA Kanggye; 1330 KK anmts, mx (W1115 2/27)

- 4376 SULAWESI RPKD-Soppeng; poor at 1215 t/in, M w/Indo tlks //4719 Ujung Pandang; sked //Samarinda which is sked //Ujung-first time in many tries (Laves 3/5) Nice one Alan..DR
- 4425 BOLIVIA R. Paititi; 0241 SS, "LA" mx (Bryan) Bolivian mx.?.DR
- 4525 E. GERMANY DIZ; time stn 030P 0325 w/pips (McLaughlin) This is an interesting stn, friendly verifier..DR
- 4600 JAVA RPKD Trenggalek; 1258 Indo, Song of Coconut Is //4719 as sked, and into nx (Laves 1/23) Really old rpt, Alan..DR..but nice
- 4610 ASIATIC SSR Khabarovsk; 0405 RR M&W in tlk (Sarrazin 3/3)
- 4635 TADZHIK SSR Dushanbe; 1400 w/violin mx (Willis) 0200 M&W in RR tlks, no clear ID (Hoffmann, Bryan)
- 4666 UNID; Indo stn well hrd 1400-1600 mixing w/USFR 4665 (Willis 2/26)
- 4668t BOLIVIA LV del Yacuma; 0255-0327 SS w/Ra-cha-cha mx, poss ID 0300 believed hrd "Yacuma" yelled but fading badly (Sarrazin 3/5)
- 4679 VIETNAM Hanoi; HS(// 1006C) 1400 & 1600, exc lvl, new Xmtr?(Willis)
- 4680 ECUADOR R Nac Espejo; 0150-0330 SS, ID's, mx(Granone, Bryan, Hammer)
- 4696 VIETNAM Quang Ninh; W w/excited VV tlk 1320, Asian mx, more tlks to 1327\* (Laves 3/4)
- 4696 BOLIVIA R Riberalta; 0100-0252 SS tlk; US pops-one day had 20 min Led Zeppelin album cut! says(Dave Sarrazin, Alan Laves)
- 4698v JAVA RKIP-Surabaya; 1404 Indo tlk by M, ment Surabaya 3 times(Bryan)
- 4700t UNID; CC stn s/on 1500 over Indo stn here, seems not to be Peking, perhaps connected w/Korean once hrd here; had many CC numbers but seems more than just numbers stn (Willis 2/24)
- 4719 SULAWESI RRI-Ujung Pandang; 1210-1330 Indo tlks, pips 1300 into RRI nx, //5886(Golden, Hoffmann, Lineback, Breeden, Whitacre)
- 4721t CAPE VERDE RC Mindelo; 0840-0850 PF, tlk by M, ID 0845 mixing with Cuban harmonic, but there(Bishop) Have a taped ID you can send me? If this stn is here, why the lack of a fuss for such a rare one..DR
- 4725 BURMA BBS; 1225 HS nationality px, Pwo Karen 1cl songs, W ancr w/ID 1230, into CC(Brookwell) 1440 in BB, W vocalist, inst(Bryan 3/3)
- 4733v PAKISTAN RP; 1400-1500, poss Urdu(Willis 2/20) 1340-1346\* Urdu px anmts by M 1344, s/off in mid-sentence on 4735 (Cosier)
- 4738 BOLIVIA R Abaroa; 0245 SS, M in tlk, 1cl mx (Sarrazin 2/28)
- 4750 ZAIRE Lubumbashi; 2030 FF(Cosier) 0405-0440 FF, nx(Bryan, Mayer)
- 4755 COLOMBIA Em Nuevo Mundo; 0520-0645 SS, CARACOL ID's, anmts(5 rpters)
- 4755  BRAZIL Radiodif Maranhao; 0235 ID, sports(Field) You caught me-in Feb LR-A Nuevo Mundo was listed as Venezuela-my mistake..DR
- 4758 CHINA Kunming; 1510 M w/CC tlk (Uerlings 2/26)
- 4760 SWAZILAND TWR; 0400-0431 rptd in GG and Afrikaans w/rel. pgm, EE ID 0430 after IS; 11sted Afrikaans WRH and Roger Legge says dual 5055 in EE at 0430(Legge TDXN-59)(Bryan, Mackay, Shotola, Lineback)
- 4760 VENEZUELA R Frontera; 0245 w/SS song by W (Sarrazin)
- 4765 ECUADOR Rdif del Ecuador; 1102 SS, morning prayer "Ave Maria" w/ID, freqs(Miller) 0325-0357 tango mx to 0330, into nx, sports nx 0355 (Roberts)
- 4765 CONGO RTVC; 0508-0520 w/ID, FF tlk, mx(Schwartz, Bryan, Roberts) 1300 FF/vern clear ID-covered Medan for a while then both wiped out(Hoffmann) 2305 FF tlk by M, African drum mx(Hammer)
- 4770 VENEZUELA R Bolivar; 2230-0120 SS, ID's, anmts, ads(Alexander, Tannenwald)
- 4775t BOLIVIA R Los Andes; 0310-0324\* SS, pop mx(Shotola 2/24)
- 4775 AFGHANISTAN RA; 1302 in lang, tlk by M (Florian)
- 4775 INDIA AIR-Gauhati; Fair het w/4774, M in Asian lang 1210t/in, short NA type piece 1214:30, off 1215 leaving huge OC 4774(Whitacre)
- 4775 BRAZIL UNID; ID twice "R Cultura" once at 0023, and 0300\* w/mx px; (Field) This is probably Oeste rptd 0301\* TDXN-59..DR
- 4780 GUINEA BISSAU Rdif Nac; 2246-0001\* and 0605-0700 w/nx 2230-all the latest nx on nationalist movements, SWAPO, Angola,.. NA at s/off all in PF but sometimes other African languages; BEWARE-some are mistaking Guinea Bissau for Afars. If you've got 4780 at 0600 you can bet on Bissau not Afars (Whitacre, Bishop, Roberts, Miller, Laves)
- 4780 VENEZUELA LV Carabobo; 0030-0359\*/1033 mx(Roberts, Krueger, Tannenwald)

- 4780 AFARS & ISAAS Djibouti; Poor in UTE, carrier \*0259,0345 lang tlks, drums(Laves)0335-0352 chant/drums(Gionet)0354 M in FF, bongo-like IS, 0400 M in FF w/ID, anmts,0401 AA chants(Whitacre)
- 4780 KARELO-FINNISH SSR Petrozavodsk; RR cmty in px of RR lite mx,polar flutter but sig. Improving after 0430; Moscow TC 0440, exercise px, time pip,"Govorit Moskva"ID,Mayak IS, nx 0500, then lcl IS,ID 0515 "Govorit Petrozavodsk"into lcl nx by w(Roberts 2/27)1400 w/RM HS-beware Djibouti also noted under USSR(Willlis)
- 4785 TANZANIA RT; \*0300 w/piano IS, into Swahili tlks, chants(Laves)Lcl nx 0400(Golden)2035 w/Swahili chants,occ anmts(Cosier)
- 4785 AZERBAIJAN SSR Baku; 0403 0415 RR, M in tik, ment "Pravda"(Gaffin)
- 4785 CHINA Kunming; Exc lvl 1040-an irregular CC stn (Willlis 2/12)
- 4789½ IRIAN JAYA RRI Fak Fak; 1210 M in Indo tik(Field) 1225-1315, Song of Coconut IS 1252, pips, into RRI nx //4719,4P45(Laves,Whitacre, Lineback)
- 4790 PAKISTAN RF; Urdu nx(//3240) at 1500 (Willlis)
- 4795 ECUADOR LV de las Caras;LA dance mx,ID, amts 0412 (Roberts)
- 4795 USSR Ulan Ude; 1300-1600 lcl px and RM relays (Willlis 2/20)
- 4800 LESOTHO RL; 0400-0500 period,NA, chimes,choral type songs follow; ment. "Lesotho" HET from R. Popular (7 rpters)
- 4800 CHINA RP; H3 w/M in tik, 1140-1155(Ferrell)
- 4810 GALAPAGOS Rdif LVG; 0232 0312, jingles,ads,ID's,mx(Rubak, Rude)
- 4815½ UPPER VOLTA RTV; 0550-0554 FF, group chants, drums (McLaughlin)
- 4820 ANGOLA R Nac; 2148 PP,lcl mx, PP tlks, better past 2142 (Fedor)
- 4820 VENEZUELA R Tricolor; TC's, ID's,0457-0515, LA mx (Roberts)
- 4820 INDIA AIR-Calcutta; 1400 w/nx; noted another stn under them, poss USSR or even old Indo hrd a few yrs ago (Willlis)
- 4835 SARAWAK RM; 1330-1520 M in Malay tlks(Bryan, Uerlings,Lineback)
- 4835 GUATEMALA R Tesulutlan; 1230 33, ID and mx(Lineback)2250-0000\* w/ beautiful marimba/xylophone mx (Krueger 1/30)
- 4839 BRAZIL Rdif Roraima; 1050-1105, 2345 Braz mx, ID 1100: This is earlier than WRH listed 1100s/on (PP) (Magne,Whitacre)
- 4845 MOLUCCAS RRI Ambon; 1230-1300,pips and RRI nx //4275,4719(Lineback)
- 4845 MALAYSIA RM; Kuala Lumpur 1455 in poss Malay,ID,chanting, mx,TC,nx, one of strongest stns on band (Hoffmann)
- 4850 UZBEK SSR Tashkent; 1240 RR?,ME/Indian mx,RR dialect anmts; diff px than 5925, W w/ID 1255; QRM Peking (Cosier,Mayer)
- 4855 SUMATRA RRI-Palembang; 1310-1536 Indo tik, mx(Bryan,Uerlings,Line-)
- 4855 UNID: 1845-1920 lang,QRM Sanaa 4853; M in tlks and seeming back) Afr. mx/ME mx(Cosier 2/23)Geoff-In '74 I noted Mauritius around this freq, same time, same type px-but I doubt it now..DR
- 4865 PORTUGAL Lisbon; Letter fm Radiodifusao Portuguesa via Alan Brooks: "...the frequency of 4865 KHZ is not of Ponta Delgada-Azores, but of the Portuguese Edcstg station at the present time transmitted to the Azores on trial."...FBIS also confirms. This shows that we should all use caution when iding new stns. I think many of the "Azores" ID's were actually mentions of the Azores beam fm Lisbon or of pertinent info/nx for Azores-so much for the new 120KW SW Xntr I guess. On 3/6 4865 was //4281 for some reason, but much weaker to 0102\* for both.DR
- 4875 IRIAN JAYA RRI Sorong; 1145-1315 Indo, 1300 nx after Song of the Coconut Islands(Hardeste,Lineback,Whitacre,Miller)
- 4900 BURUNDI R CORDAC; 0425-0445f/o M in tik, rel choir vocals, ID at 0432; FF and vern(Bishop)

I suppose you noticed the change in print. Ok, so I get the NASWA most inconsistent print quality award. Good DX and 73..see below!

1700.6 UNID 1316 w/cuts fm Tom Jones album;W ancr in SEA lang,mx in EE or lang & varies fm Western to SEA instr/vocal; Daily s/off 0855 & returns 0945 w/weaker sig.Is not //China 850 so not that harmonic;no ID hrd yet, nor IS pr pips. With loop appears to be nulled NE/SW, sig noted 0430-1600 poss final s/off (Mike Hardeste -Okinawa)

# log report *section* **B**

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4900 kHz - 6200 kHz

APRIL 1977

- 4904.5 CHAD RNT; 2152 Af. mx(Fedor)0435-0534 in FF w/ pop mx,native mx,IDs,  
(Macris,Florian)0600 w/ nx in FF(Schwartz).
- 4905 BRASIL R. Relogio Federal; 0145-0200 in PP w/ rel. pgm,TC's(Field).
- 4910 GUINEA R. Nationale; 0602-0710 in FF w/ Af. mx,Koran chants,cmntry.  
ID's and nx at 0700(Roberts,Edelstein,Uerlings)0200+ w/ lcl mx, nx  
and tlks by a M in FF (Field,Brookwell,Bryan).
- 4915 BRASIL R. Anhanguera; 0208 in PP w/ nx,ID,ads,rock mx(Roberts 2/26).
- 4915 BRASIL Rdf. Macapa; 0258\* in PP w/ LA pops,ID,classical mx(Laves).  
0947 in PP w/ cmntry(Uerlings 3/1).
- 4915 GHANA GBC; 2248-2304\* in EE w/ nx,ID,march mx(Schipelliti,Macris).
- 4915 KENYA VOK; 0620 in Swahili w/ cmntry,drums,ID(Earhart 2/27).
- 4920 AUSTRALIA ABC Brisbane; 0906 in EE w/ ID & nx(Bryan 3/6).
- 4925 CHINA Haerbin; 1006-1215 in CC w/ local mx & cmntry(Bryan,Ferrell).
- 4925 ECUADOR R. Quito; 0404 in SS w/ LA & rock mx(Rubak 2/7).
- 4926 RIO MUNI R. Bata; 2200 in SS w/ Af. mx and ID(Mayer 3/5).
- 4927 SUMATRA RRI Jambi; 1240 in II w/ cmntry by a M(Whitacre).
- 4930 ECUADOR R. Casa de la Cultura; 0345 in SS w/ Andean mx,ID(Bishop).
- 4932 INDONESIA RRI Surakarta; 1505 in II w/ nx(Uerlings 3/1).
- 4932 NIGERIA Benin City; 2226 in EE w/ jazz mx & discussion on jazz mx,  
(Herkimar 2/22)0601 in EE w/ nx //4900, off // at 0615(Laves 1/22).
- 4935 BRASIL R. Capixaba; s/on w/ ID in PP followed by mx pgm.Time?(Field)
- 4935 PAKISTAN RP; 1240-1245 in Urdu w/ local vocals,id,NA(Florian 2/25).  
Your Ed. mistook this as Yakutsk a few months ago.
- 4935 PERU R. Tropical; 1045 in SS w/ Andean or campesino mx(Field 2/18).
- 4940 ASIATIC RUSSIA Yakutsk; 1155 in RR w/ classical mx,DJ(Bryan).
- 4940 CHINA Site? 1135 in CC w/ cmntry by a M(Ferrell).
- 4940 ECUADOR R. Nacional; 0210-0313\* in SS w/ classical mx & vocals,NA  
(Cress)0400\* w/ Andean mx(Roberts)0415\* w/ ID,NA(Roberts).
- 4940 IVORY COAST RTVI; 2124 in FF w/ Af. mx(Fedor)0607 w/ chants(Rubak).
- 4940 UKRAINE R. Kiev; 0430 in RR w/ cmntry & classical mx(Sarrazin 2/27).
- 4940 VENEZUELA R. Yaracay; 0331 in SS w/ LA mx,jingles,ID(Rubak 2/7).
- 4945 COLOMBIA R. Colosal; 0225-0702 in SS w/ ID's,chimes,jingles, LA mx,  
VIETNAM VOV; 1100-1440 in VV w/ cmntry & vocals (Rubak,Poppin).  
x-4951,sounds high-powered, (Cosier,Ferrell,Lineback,Whitacre)Since  
move here,Ulan Bator now audible on 4950 (Willis). (Roberts 2/26)
- 4948 BRASIL A Voz Sao Francisco; 0147-0205\* in PP w/ romantic mx,cmntry,  
4950 SARAWAK RMS; 1100-1500 in EE and in lang. at times w/ semi-classical  
mx,nx,ID's,EE lessons,BBC programming(Breeden,Bryan,Hoffmann,Godfrey)
- 4955 COLOMBIA R. Nacional; 0540 in SS w/ ID & nx(Parkey 2/20).
- 4955 PERU R. Cultura Amauta; 1103 in SS w/ rel. pgm (Field 2/18).
- 4955 SUMATRA RRI Banda Aceh; 1239 in II w/ mx & cmntry by a W(Whitacre).
- 4960 CHINA RP; 1156-1250 in JJ to 1200,then into lang.(Lineback,Ferrell).
- 4960 VENEZUELA R. Maracaibo(Sucre? Ed.) \*1000 in SS w/ ID,LA pops(Roberts)
- 4965 COLOMBIA R. Santa Fe; 0145 in SS w/ LA mx,ID(Alexander)0648 in SS w/  
orch. mx & vocals(Hoffmann).0910 w/ local tunes,ads(Cosier 2/20).
- 4965 ZAMBIA ZBS; 0430 in Swahili w/ cmntry (Mayer 3/4).
- 4970t SABAH RMS; 1225 in lang. w/ stringed mx,cmntry (Field 3/6). Luce).
- 4970 VENEZUELA R. Rumbos; 0148-0940 in SS w/ ID,TC,ads,tlks(Tannenwold,
- 4972.5 CAMEROON R. Yaounde; 0501-0515 in EE/FF w/ nx,Af. mx(Fedor,Sarrazin).
- 4975 CHINA Fuzhou; 1400 in CC w/ cmntry (Willis). (Miller 3/3).
- 4975 COLOMBIA Ondas del Ortequaza; in SS w/ LA mx,ads,ID? (Time? Ed)
- 4975 TADZHIK Dushanbe; 1310-1500 in HS in RR w/ classical mx(Willis,Cos-
- 4980 CHINA PLA-1; 1200 in CC //3000,3535,3640,4045,4330.(Hardester)ier).
- 4980 GHANA GBC; 0550-0630 in EE w/ pop mx,nx,ads,TC,rel. pgm.(Edelstein,
- 4980 VENEZUELA Ecos del Torbes; 0157-0231 in SS w/ US tunes, Shotola).  
LA mx & vocals,ID's,TC's (Rubak,Alexander).

- 4985 BRASIL R. Brasil Central; 0130-0440 in PP w/ pop mx, ID, vocals (Bryan),  
 4985 MALAYSIA RM Penang; 1220-1628\* in lang. w/ pop mx ID, NA Poppin).  
 poor level, US pop tunes (Lineback, Poppin, Bryan). (Whitacre).  
 4985 SULAWESI RRI Ujang Padang; 1215-1229\* in II w/ cmntry by a M, ID, NA  
 4990 NIGERIA NBC Lagos; 0450-0610\* in EE w/ nx, ID, IS, cmntry (9 reporters).  
 4990 VENEZUELA R. Barquisimeto; 0357\* w/ ID, NA (Rubak) 0615 in SS w/ ID  
 4994 VIETNAM VOV Hanoi; 1449 in VV w/ cmntry (Bryan 3/4). (Tannerwald).  
 4995 PERU R. Andina; 0330 in SS w/ fast Andean mx & vocals (Bryan 2/21).  
 5000 ITALY IBF Turin; time pips w/ ID in EE/FF/Italian 0659-0701\* (Bishop).  
 5000 SOUTH AFRICA ZUO; TC in code 2200 (Fedor).  
 5005 ASIATIC RUSSIA RID Irkutsk; 1025 w/ time pips in CW (Laves 1/15).  
 5010 COLOMBIA R. Sur Colombrana; 0351 in SS w/ US pop mx & local tunes.  
 5010 PERU R. Eco; 0230-0457\* in SS w/ pop mx, DJ, easy listening mx, (Rubak),  
 ID's, cmntry by a M (Bryan, Hamnier, Golden). How does one QSL station?  
 5015 ASIATIC RUSSIA Vladivostok; 1824 in RR w/ semi-classical mx (Bryan).  
 5015 BRASIL R. Pioneira; 0301 in PP w/ piano mx, ID (Field 2/9). (Mayer).  
 5020 COLOMBIA Ecos del Atrato; 0330 in SS w/ musical ID's, SS pop mx  
 5020 NIGER ORCN; 0632\* in FF w/ Af. mx, ID, NA (Shotolo).  
 5020 SOLOMONS SIBS; 0650-0925 in EE w/ pop mx, nx relay from the ABC,  
 sports pgm at times, some Pidgin noted (Hoffmann, Beal, Breeden).  
 5025 ECUADOR R. Splendit; 0400 in SS w/ Ecuadorian mx, ID, TC's (Stauner,  
 McLaughlin). 1025-1142 w/ Andes mx, vocals, ID, TC (Cosier, Roberts).  
 5030 SARAWAK RMS; 1320-1446 in Bidayah w/ local mx, DJ, ID, vocals (Lineback).  
 5030 VENEZUELA R. Reloj Continente; 0707\* full ID w/ site (Hoffmann). 2345-  
 0353 in SS w/ station names, pop tunes, ID, TC, ads (Rubak, Goldman, Pyatt).  
 5035 KAZAKH Alma Ata; \*1231 in lang. w/ possible local pgm. (Whitacre 2/24)  
 5038 CENTRAL AFR. REP. RNC; 2220 w/ Af. mx (Fedor) 2300\* in FF w/ NA (Gionet)  
 5040 CHINA Site? 1216 in CC w/ cmntry by a M (Ferrell 2/22).  
 5040 COLOMBIA R. Cinco; 0357-0550 in SS w/ Caracas ID, "Musica Increible"  
 pgm. (Roberts, Bryan) 0930-1000\* in SS w/ "La Voz de la Colombia" ID  
 5040 ECUADOR RN Espejo; 0708 in SS w/ ID, tlks, LA mx, in lang also (Cosier).  
 5040 VENEZUELA R. Maturin; 2331 in SS w/ vocals, ID's, (Earhart). (Poppin).  
 5041 PERU R. Libertad de Junin; 0840 in SS w/ ads, band rhythms (Bunn 2/22).  
 5045 BRASIL R. Presidente Prudente; 0205 in PP w/ tlks, ID (Sarrazin 3/5).  
 5045 COOK ISLANDS R. Cooks; 0820 in EE // 5995 w/ ABC relay (Laves 3/5).  
 0815 w/ nx, ID (Granone 12/23) 0736 // 11780 relay RNZ nx (Brookwell 2/11)  
 5046 INDONESIA RRI Yogyakarta; 1511 in II w/ tlks by a M (Uerlings 3/1).  
 5047 TOGO RTVT; 2305\* in FF w/ ID, NA (Goldman) 0600 w/ Af. mx, drums, in lang.  
 5050 PERU R. Loreto; 0645-0715 in SS w/ ID, drum & vocals (7 reporters).  
 along w/ non stop QRN (Hoffmann).  
 5050 VENEZUELA R. Mundial; 0417-0702 in SS w/ lively LA mx, ID, band mx, TC,  
 vocals (Earhart, Bunn, Rubak). 2300 w/ MoR mx, ads, ID, TC (Krueger, Goldman)  
 5052 SINGAPORE RS; 1630\* in EE w/ pop mx, ID (Bryan 3/6).  
 5054.5 MONGOLIA RUB; 1215 in lang. w/ vocals, cmntry (Whitacre 2/24).  
 5055 SWAZILAND TWR; \*0425-0455 in EE w/ bell IS, ID, rel. pgm. (8 reporters)  
 5057v ALBANIA Gjirokaster; 0520-0554 w/ wake up pgm, piano mx (Hauser, Flor-  
 5060 ECUADOR RN Progreso; 0215-0434\* in SS w/ guitar mx, vocals ian).  
 tlks, ID (Hammer, Thompson) 0515\* in SS w/ LA mx, ID (Bryan).  
 5065 KARLO-PINNISH REP. Petrozavodsk; 0504 in RR w/ cmntry (Bryan).  
 5061 PAKISTAN RP; 1300 in EE w/ nx, IS, possible alternate for 7010 (Willis).  
 5075 COLOMBIA R. Sutatenza; 0347 in SS w/ cerveza ads, vocals (Stauner).  
 5085 UNID. 1108 in SS w/ rapid fire numbers (Ferrell 2/22).  
 5090 HAITI R. Grande-Anse; 1515 in Creole w/ tlks by a W, it sounded like  
 an Indian language, 1525\* w/ NA (Beal 2/24) Anyone else have info? Ed.  
 5095 COLOMBIA R. Sutatenza; 0128-0316 in SS w/ IS, ID, classical mx (Parkey).  
 5145 CHINA RP; 1511 in RR w/ cmntry (Poppin). McManus.  
 5220 CHINA RP; 1520 in lang. (Mong.) group singing (Poppin).  
 5290 ASIATIC RUSSIA; Krasnoyarsk; 1150 in RR w/ tlks by a W (Laves 3/4).  
 5320 CHINA RP; 1526 in CC w/ rev. songs, march mx (Poppin).  
 5640 CHINA RP; 1532 in CC w/ cmntry (Poppin).  
 5746 USA VCA; 0605 in EE on LSB w/ nx followed by mx (Hoffmann).  
 5850 CHINA RP; 1220-1400 in Mongolian (Willis, Ferrell).  
 5867 UNID. SS numbers station at 1418 w/ W giving numbers (Beal).  
 5880 CHINA RP; 1534 in CC w/ march mx and tlks by a W (Poppin).  
 5886v SULAWESI RRI Pakanbaru; 1140-1220 in II w/ vocals by a W, Love Ambon,  
 single type IS (Hoffmann) 1520 in II w/ cmntry and mx (Uerlings).  
 5900 ISREAL IBA; \*2230-2300\* in EE w/ ID, nx (Sobin) \*0500 in EE w/ ID, nx &  
 wx, cmntry (Godfrey, Poppin, Grenier).  
 5910 ASIATIC RUSSIA Krasnoyarsk; 1445 in RR w/ Pacific Ocean IS (Brookwell)

- 5915 BULGARIA R. Sofia; \*0430 in SS w/ nx(Mayer)0543 in lang. w/ symphony mx(Poppin)2145 in EE w/ cmntry on economy(Cohen).
- 5915 USSR; 1537-1600 in RR w/ wx for Batum,Sochi,etc...very good orchestra mx,TC(Poppin).
- 5920 ASIATIC RUSSIA Vladivostok; 1406-1500\* in RR w/ classical & operatic mx, Kiev IS at 1430 (Brookwell 2/16).
- 5920 NICARAGUA Rdf. Nacional; 0210-0230 in SS w/ tlks.(Shotola) If this is YNM please do not confuse with SS from Moscow - as below. Ed.
- 5920 USSR; 1615 in RR w/ vocal and musical requests(Poppin 2/11). 1040 in RR HS over another RR station(Willis).
- 5920 USSR RM; 0300 in SS w/ ID, vocals & mx(Granone 2/19).
- 5930 CZECHOSLOVAKIA RP; \*0100-0157\* in EE w/ TC,nx,DX club, IS //7345, 9540,9630 and 9740. (Gearhart,Edelstein,Granone)0237 in SS(McManus).
- 5930 KARELO-FINNISH REP. Murmansk; 0500-0515 in RR w/ RM relay, 5th pgm. nx, Murmansk IS at 0515(Brookwell). (Poppin 2/3).
- 5930 USSR; 0721 in RR w/ mx and a radio drama play.Murmansk or Tbilisi?
- 5935 LATVIA R. Riga; 0550-0605 in RR? w/ ID,TC,nx, fade after 0600(Hoffmann 2/14)2130-2201\* in Swedish w/ ID,folk mx(Pyatt,Whitacre,Herkimmer)2230 in Swedish w/ W announcer w/ the nx(Mayer 2/22).
- 5935 UNID. 0035 in RR? w/ cmntry by M & W (Field 3/5). stein,Thompson).
- 5940 EUROPEAN RUSSIA RM Nikolayev; 0130-0230 in EE w/ ID,nx,wx,tlks(Edelstein)0240 in RR w/ ballad mx,ID,IS(McLaughlin).
- 5954 COSTA RICA R. Casino; 0430 in EE w/ ID,qTH,rel. tlks(Granone 2/17).
- 5955 BRASIL R. Gazeta; 0840 in PP w/ ID, rel. pgm. (Bishop 3/2).Edelst'n)
- 5955 GERMAN DEM. REP. RBI; 0320 in EE w/ Mailbag,ID,wx,mx,cmntry(Smith,
- 5960 ALBANIA RT;\*2159 in GG w/ IS,ID,nx(Florian).
- 5960 ANTIGUA DW; 0520 in EE w/ political tlks(Grenier)\*0530 in EE w/ IS, ID, cmntry to No. Amer. (Rubak 2/7). Is s/on at 0530? Ed. well)
- 5960 ASIATIC RUSSIA Vladivostok; 0800 in JJ w/ RM relay,IS & cmntry(Brookwell)0320 in EE w/ tlks on frequency spectrum(Granone 2/19).
- 5960v COLOMBIA La Voz de los Centauros; 0621 in SS w/ ID,mostly LA mx(Poppin)
- 5965 BRASIL R. Guaiba; 0856-1025 in PP w/ Brazilian instrumental mx, pin). Jazz mx pre s/on at 0900.Near Perfect level!(Cosier,Willis)0507 w/ID (Rubak). 1025 w/ easy listening mx(MacKay).
- 5965 MALAYSIA RM Kuala Lumpur; 1607 in lang. w/ vocals,chants-call to prayer, organ mx(Poppin).
- 5965 NIGERIA NBC Jos; 2130-2305\* in EE w/ nx,pops,local ID on the hour & 1/2 hour(Whitacre)\*0429-0600 in EE w/ mx,nx,pop mx,clear ID(Herkimer, Laves,Godfrey)0650-0835 f/o w/ flute mx,Af. tunes. Listed by Cosier as Benin and very tentative.Could be Jos with all the above ID's,Ed.
- 5965 SWITZERLAND SBC; \*0145 in EE w/ IS,ID,nx //6135(Beal)0345 in Italian
- 5970 BORNEO Banjarmasin; 1135-1235 in II w/ little mx,mostly tlks, (Alm). First time to hear this one. (Field 2/25).
- 5970t PORTUGAL RFE; 0540 in Czech. w/ mx. Looking for Aden-no luck(Earhart)
- 5970 USSR RM; 0900-1609 w/ RR HS(Alma Ata?) cmntry,folk mx(Poppin,Willis)
- 5975 BRASIL R. Guarujá; 0854-0900 in PP w/ songs,slogans,ID(Willis,Cosier)
- 5975 ENGLAND BBC; 0001 in EE w/ ID,nx(Alintuck)0630 in EE w/ Af. nx(McManus).0900-1300 in EE w/ BBC pgms. (Willis).
- 5980 MEXICO R. Mexico; 1501 in SS w/ ID(Breeden 3/6).
- 5980 NORWAY RN; 1600 in EE w/ ID, "Norway This Week"(Pollard 2/13).
- 5980 PERU R. Panamerica; 0435-0646 in SS w/ pop mx, C&W mx, LA pops,ID, Folk mx, Coke ads,vocals(Florian,Hoffmann,Bogel,Poppin,Roberts).
- 5980 USA KGEI; 0718 in EE w/ ID & religious pgm. (Edelstein).
- 5985 BURMA BBS; 1520-1600\* in EE w/ request pgm.,US pop mx,ID(Bogel 2/25).
- 5987 CELEBES RRI Menado; 1415 in II w/ nx,cmntry,tlks(Mayer 2/28).
- 5990 JAPAN RJ; 1605 w/ EE nx(Granone,Poppin)0900 w/ EE nx(Bryan,Bishop).
- 5990 ROMANIA RB; \*0130 in EE w/ ID,nx,cmntry(Schneck,Sobin)\*0400 in EE w/ cmntry,earthquake report,ID,nx(Cohen,Edelstein,Bishop,Golden). one).
- 5995 AUSTRALIA RA; 1135-1600 in EE w/ nx,ID,IS,pop mx(Poppin,McManus,Granone)
- 5995 USA UNR; 0220 in EE w/ ID, classical mx,till 0230\*(Schwartz).
- 5995 USA VOA Greenville; 0600 in EE w/ ID, nx (Wilson).
- 5995 VATICAN RV; \*0100 in EE w/ ID, rel. pgm. & nx(Schneck,Bishop,Godfrey)
- 6000 CANADA RCI; 0130 in EE w/ nx(Schneck)\*0300-0327\* in EE w/ ID,nx(Fil-
- 6000 COLOMBIA R. Super de Medellin; 0045 in SS w/ tlks,ID(Hammer). ka).
- 6000 HONDURAS R. Swan; 0750 in SS w/ ballads,ID,back from 6015(Bunn 2/15).
- 6000 HUNGARY RB; 0300-0400 in EE w/ ID,nx,DX show,mx(Pollard,Bishop,Granone)
- 6005 ASCENSION BBC; 0500 in EE w/ ID,IS,nx to Af.(Bogel,Thompson, one). Edelstein)2130 in EE w/ WS to Af.(Wilson).
- 6005 AUSTRALIA RA; 1530 in EE w/ nx & mx(Godfrey).
- 6005 CANADA CFCF; 1620 in EE w/ pop mx,ID (Alintuck).

- 6006 COSTA RICA R. Reloj; 0040 in SS w/ ID, tlks(Granone).  
 6010 ANTIGUA DW; \*0130-0150\* in EE w/ nx, cmntry, interview(Sobin).  
 6010 ITALY RAI; \*0100-0120\* in EE w/ nx, rel. pgm.(Stees). (Cosier).  
 6010t PERU R. America; 0837-0900 in SS w/ ID as "La Voz de ---"&"America".  
 6010 VENEZUELA R. Los Andes; 0915 in SS w/ piano mx & rhythms(Bunn 1/3).  
 6012t ANTARCTICA AFAN; 0955-1010 in EE w/ pop mx, flutter(Cosier)1058 w/  
 carrier, very weak w/ flutter.hopeless(Laves 3/4).  
 6012 UNID. 0900 in SS w/ tlks.Who?(Willis).  
 6013 UNID. 0900 in Asian lang. Again at 1200. Possibly Thailand.(Willis)  
 6015 AUSTRIA ORF; 0430 in EE w/ ID, nx(Gionet, Alm)0405 & 0512 in GG w/ nx  
 mx and pop tunes(Earhart, Bryan).  
 6015 COLOMBIA R. Mira, Tumaco; 1130-1202 in SS w/ mx, TC's, ID's, ads for  
 "Banco de Ahorro de Colombia"(Roberts, Bunn).  
 6015 HONDURAS R. Swan; 0948 in SS w/ ballads, US R&R mx, ID(Bunn 2/9).  
 6015 INDIA AIR; \*1230 //3905, Lang? (Willis).  
 6015 RHODES VOA; 2130-2200\* in EE w/ ID(Gionet).  
 6015 VATICAN CITY RV; \*0100-0115\* in EE w/ rel. tlks, ID, nx(Stees). 2/2).  
 6015 UNID. 0900 in SS w/ tlks. not Swan. Paraguay or Colombia?(Willis)  
 6020 VENEZUELA R. Anzoategui; 0330 in SS w/ ID & LA mx(Granone 2/15).  
 6025 PORTUGAL RP; \*0230-0300\* in EE w/ nx, ID, cmntry(Sobin, Schneck, Beal).  
 \*0500 in EE w/ ID, nx(Stees, Bogel)2100\* in EE, \*2100 into FF(Richard-  
 6030 PHILIPPINES FEBC; 1130 in EE w/ nx, ID(Ferrell 2/18). son).  
 6035 BOLIVIA R. Panamerica; 1117 in SS w/ carnival ads, TC, ID, (Roberts).  
 6035 LIBERIA VOA; 0600 in EE w/ African Safari pgm.(Wilson).  
 6040 ANTIGUA DW; 0130-0150 in EE w/ ID, nx, cmntry(Schwartz, Luce, Brown).  
 6040 USA CAS; 2345 in SS w/ IS, ID, nx, cmntry(Goldman, Granone).  
 6045 AUSTRALIA RA; 0915 in EE w/ "Countdown" pgm, ID (Granone). (Roberts).  
 6045 BRASIL R. Clube Paranaense; 0303\* in PP w/ MoR pop mx, ID, TC, ads  
 6045 LIBERIA VOA; 2130 in EE w/ energy conservation discussion(Wilson).  
 6045 SWEDEN RS; 0243 in EE w/ SCDX pgm., ID, 0257\*(Bryan, Bishop). Wilson).  
 6045 SWITZERLAND SBC; \*0430-0530 in EE w/ IS, ID, nx, mx, (Hartsell, Bogel).  
 6055 JAPAN NSB; 1530-1600 in EE/JJ w/ Tokyo Forum, ID, they talked about  
 the letter that I sent them and about Colorado(Godfrey 2/8). hop)  
 6060 ARGENTINA RN; 0805-0950 in SS w/ orchestra mx, ID, US pop mx(Bunn, Bis-  
 6060 SICILY RAI Caltanissetta; 0606 in Italian w/ romantic vocals(Cress).  
 6065 COLOMBIA R. Super de Bogota; 0643-1002 in SS w/ fast LA mx, ID(Laves,  
 6065 SPAIN RNE; \*0100-0130 in EE w/ "Panorama" pgm., ID, cmntry Bryan).  
 (Sobin, Bishop, Schneck)0220 in EE w/ nx, ID, easy mx(Smith, Tannenwald).  
 6070 CANADA CPXK; 0100 in EE w/ nx, wx, ID, ads(Granone).  
 6070 USSR RM; 0312 in EE w/ ID, "Mailbag"(Filka). 1612 in RR(Poppin).  
 6070 INDONESIA RRI Jayapura; CORRECTION: My report of 12/29 states that I  
 heard multi-lingo ID's. This was my mistake as I probably heard other  
 stations mixing in. Hope I haven't misled anyone. (Laves)  
 6075 COLOMBIA R. Sutatenza; 1120 in SS w/ pop vocal & trumpet mx(Bunn).  
 6075 FED. REP. OF GERMANY DW; 0145 in EE w/ ID, cmntry(Bryan).  
 6075 UNID. 0445-0525 in AA w/ mx(Bogel).  
 6080 BELGIUM BRT; 0015-0030\*(0045\* others) w/ pop mx, DJ, ID, cmntry, "Mail-  
 bag", DX pgm. (Smith, Bernstein, Dubrick, Beal, Stees, Kinnaly, Golden).  
 6080 GERMAN DEM. REP. RBI; 0330-0415 in EE w/ nx, ID, tlks(Sillings).  
 6080 MALTA R. Mediterran; 2045 in EE w/ pop mx(Pyatt)2045-2100\* as IBRA  
 RADIO w/ mx, ID, cmntry(Fedor)2105 as MALTA CALLING w/ nx, mx, ID(Fedor)  
 6080nf SPAIN RTVE; 0215-0245 in EE w/ sports, ID, IS, nx, easy mx(Brown).  
 6085 ANTIGUA DW; 1120\* in SS w/ ID(Bunn) 0400 in GG(Grenier)0355 w/ nx,  
 pop mx, IS, ID(Dettmann)0600 in GG w/ ID to Aust/NZ(Earhart).  
 6085 ESTONIA R. Tallin; \*2103 in Swedish w/ IS, ID, (Cosier 3/1).  
 6085 INDIA AIR Madras; \*1244-1325 in lang. w/ sub-continental mx(Brown,  
 Laves) 1313 in EE w/ same type mx, tlks(Florian 2/26).  
 6085 SPAIN RNE; 0100 in SS w/ ID(Pollard).  
 6087 TAIWAN BCC; 1910 in CC w/ ID (Cosier 2/23).  
 6090 AUSTRALIA ABC Sydney; 0935 in EE w/ swing & jazz mx(Beal).  
 6090 LUXEMBOURG RL; 0000-0130 in EE w/ ID, pop mx, sports(9 reporters).  
 6090 USSR; 1327 in RR w/ semi-classical mx, IS, Mayak ID(Florian 2/26).  
 6095 BRASIL Rf. de Sao Paulo; 0825 in PP w/ LA mx, ID, ads(Bishop).  
 6095 ECUADOR HCJB; 0145-0330 in EE w/ DX Party Line, ID, rel. pgm.(Granone,  
 6095 PERU RN; 0825 in SS w/ ID, Peruvian mx, tlks(Pyatt). Grenier).  
 6100 VENEZUELA YVTO; announcements & pips, in SS from 0716-0855(Rubak).  
 6105 MEXICO Su Pantera; 1210 in SS w/ ID, TC, mariachi mx, tlks(Roberts).  
 6105 NEW ZEALAND RNZ; 0810-0905 in EE w/ ID, nx, drama, wx(Pyatt, Bishop).  
 6105nf PHILIPPINES VOA; 1300 in EE w/ nx, ID (x-6110)(Beal).

- 6115 COLOMBIA La Voz de Llano; 0934 in SS ID,TC,pop vocals(Macris,Bunn).  
 6115 MEXICO R. Univ. de Sonora; 1630 in SS w/ pop mx & classical(Thomp-  
 6119 VENEZUELA R. Angostura; 1035 in SS w/ Banco de Venezuela ad, son).  
 ID(Bunn)1100 in SS w/ ID,TC,many ads(Roberts)1202 in SS w/ nx(Bree-  
 6120 ARGENTINA R. El Mundo; 0047 in SS w/ tlks & LA mx(Brookwell) den).  
 0700 in SS w/ lite,pop,rock mx(Roberts).  
 6120 RHODES VOA; 0440 in AA w/ ID(Bishop).  
 6120 SPAIN RTVE; 0400 in SS w/ nx,ID,MoR mx(Brown).  
 6120 SWEDEN RS; \*2300-2330\* in EE w/ local folk mx,DX pgm. (Steas).  
 6121v NICARAGUA R. Atlantico; \*1200 in SS w/ ID,nx,vocals(Whitacre)1209 w/  
 ID (Breedren).  
 6125 USSR RM; 2200 in RR w/ ID(Brown).  
 6130 ECUADOR HCJB; 0800 in EE w/ IS, ID, religious programs(Granone).  
 6130 SAUDI ARABIA BSKSA; 0510 in AA w/ chants (Bishop).  
 6135 BRASIL RTV Gaucha; 0845-0931 in PP w/ ads, jingles, ID's, LA vocals,  
 pops, comedy records(Macris,Willis,Bunn). 0240 w/ sports(Roberts).  
 6135 CHILE R. Univ. de Concepcion; 1105 in SS w/ nx,ID,fanfare(Roberts).  
 6135 SWEDEN RS; 0200 in EE w/ ID(Woltman). Granone,Schneck).  
 6135 SWITZERLAND SBC; 0145-0215 in EE w/ "Dateline" pgm.,ID,nx(Bryan,  
 6140 AUSTRALIA ABC Perth; 0101\* in EE w/ ID(Cosier) 1020-1515 in EE w/ ID  
 nx, pops, sports report(Bryan,Godfrey,Lineback,Filka). Edelstein)  
 6145 ALGERIA RTVA; 0600-0642 in AA w/ chanting,cmntry,ID(Schwartz,Fedor,  
 6145 FED. REP. OF GERMANY DW; 0032 in AA w/ ID,nx,chants(Beal) 0332 in  
 GG w/ nx cmntry,ID(Bryan).  
 6150 COLOMBIA La Voz de Huila; 0840-1000 in SS w/ Todelar pgm.,pop mx,ID,  
 ballads,TC's,(Macris,Tannewald,MacKay).  
 6150 UNID. BBC?; \*2200 in JJ w/ definite ID...Davenport?(Brown).  
 6155 AUSTRIA ORF; 0000 in GG w/ nx,ID //9770(Luce)0150 in EE w/ cmntry,ID  
 (Bishop)0625 in GG w/ radio drama(Schwartz)0335 in EE w/ID(Lineback).  
 6155 JAPAN PEN; 0804 in EEw/ nx,ID,mx(Breedren 2/13).  
 6155 USA WYFR; \*0100-0155 in EE w/ ID, nx, rel. pgm. (Bishop,Granone).  
 6165 NETH. ANTILLES RN; 0500-0620 in EE w/ ID, pop mx,easy listening mx  
 (McManus,Schneck,Edelstein)0215 in EE w/ DX pgm.,ID, cmntry(Bishop).  
 6175 BRASIL R. Guarani; \*0900-0920 in PP w/ ID, accordian mx. QRM from  
 France and Malaysia(Willis,Bunn).  
 6175 CANADA BBC relay; 2300 in EE w/ IS, ID, nx(Granone).  
 6175 COSTA RICA TIFC Faro del Caribe; \*1045-1105 in SS w/ ID, lite mx,  
 slow moving LA mx(Gaffin,Roberts).  
 6175 ENGLAND BBC; 0100 in EE w/ ID, nx, musical pgm.(Brown). Could this  
 be confused with the BBC relay above? Ed.  
 6180 CYPRUS BBC; 0455 in EE w/ ID //6175(Bishop).  
 6180 ENGLAND VOA Wofferton; 0200 in Ukrainian w/ EE ID,nx(Goldman).  
 6180 GUATEMALA RN; 2100 in SS w/ vocals, ID, nice mx(Granone)1230 in SS  
 ID and a musical program (Brown).  
 6180 NORWAY RN; \*2055 in NN w/ IS,ID,nx(Brown).  
 6185 ETHIOPIA R. Ethiopia; \*0330 in Amharic w/ flute IS, ID, then into  
 Somali type mx (Mayer 2/4). (Schneck).  
 6185 FED. REP. OF GERMANY (?) DW; 0530-0550 in EE w/ ID, nx, magazine pgm.  
 6185 MALTA R. Vox Fidei; \*0600-0630\* in FF w/ tlks on liturgy,ID(Gaffin).  
 6185 LIBYA PRB; 0600-1000 in AA. Fades out concurrently with RTVA on 6160  
 and on 6145(Willis).0630-0930 in AA w/ chants(Cosier).  
 6190 VATICAN RV; 0628 w/ Mass in Latin(Schwartz).  
 6190 VENEZUELA Ecos del Torbes; 1115-1125 in SS w/ ID, TC's, local mx,  
 ads, //4980(Roberts).1018 in SS w/ ID. Program sounds like a relay  
 of Radio 860 their mediumwave outlet.(Cosier).  
 6195 CANADA CBC NS; 0605\* in EE w/ ID, nx(Wilson)0345 in Indian language  
 w/ nx,ID.QRM from BBC Antigua.(Lineback).  
 6195 CHILE R. Nacional de Chile; 0940-1000 in SS w/ many ID's, nx, chimes,  
 talked about R. Balmaceda during nx(Bunn).  
 6195 FED. REP. OF GERMANY VOA; 2140 in PP w/ nx(Wilson).  
 6200 ALBANIA RT; 0230-0350 in EE w/ IS,ID, nx, cmntry(Granone,Edelstein).  
 6200 USSR RM; 0900-1200 in RR HS, This station carries Vietnamese later  
 on so do not confuse with Laos on the same channel(Willis).

I was very surprised this time around as I used almost 99% of all reports that were submitted. They fit just fine. Our DX season may be ending and the 'Down-Under' fellas season is just starting. Hang in there - lots of good stuff still on the bands...

# log report *section* **C**

FOR GAVARAN, EDITOR  
16920 17th Avenue North  
wadena, Minnesota 55391

6201 kHz - 11700 kHz

APRIL, 1977

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

- 6230 ANDORRA R. Andorra; 0615-0830 EE w/pop mx, ID's, Hard Sell type DJ pattern.  
Utility RMI (Whitacre 3/6, Willis 2/26, Hammer 3/6, Coiser 2/27).
- 6290 CHINA R. Peking; 1305 EE news read by a lady (Lineback 2/26).
- 6321 UNID; 1440 lang, \*1500 Rk w/no music. Very poor level (Coiser 2/27).
- 6363: MONGOLIA R. Ulan Bator; 1245 Very weak & fluttery, found in usual blanket of ute's.  
They seem to have fixed freq drift problem. Weak to nil mod. TLK & Asian mx (Whitacre).
- 6500 CHINA R. Peking; 1300 CC regional pgn. I thought Shanghai used to be listed here  
but I can not find the reference. Under open carrier. No // located (Willis 2/26).
- 6574 CHINA R. Peking; \*1300 Hindi (unlisted). 1305 off mid announcement. I guess they  
made a mistake. Open carrier 6577 & seemingly weak signal from V. of Lebanon (Willis)
- 6600 KOREA (NORTH) KOB5; 1639 Korean talk with chorus music (Poppin 2/5).
- 6605 CHINA R. Peking; 1642 Chinese talk w/Chinese opera with string music (Poppin 2/5).
- 6900 TURKEY Turkish State Meteorological Sv; 1450 Turkish. V. Good w/Mid East Chants (Coiser)
- 6933 CHINA R. Peking; 1648 Unid lang w/cntry, mx to 1652\* (Poppin). I have Arabic listed-
- 6974 CHINA R. Peking (Huhehaote); 1735 Rk cntry, mx. Severe Interference (Poppin 2/5).
- 6977 LAOS NRBS; Steady but disappointing level 1200. No // located (Tried: 6170, 6180,  
6694 and 4603). I guess those Laotian regionals drift around. (Willis 3/2).
- 7050 EGYPT n. Cairo; 0415 AA w/singing by a small group, drum & flute like mx (Earhart).
- 7060 CHINA R. Peking; 1312 Chinese to South East Asia. Talk with no music (Brookwell 3/1)
- 7065 ALBANIA R. Tirana; 0526 FF ID, International; 0530 SS broadcast (Poppin 3/1).
- 7070 INDONESIA RRI (Jakarta); 1315 Indonesian identification and talking (Breedem 2/21).
- 7080 CHINA R. Peking; 1709 Chinese commentary with CW interference (Poppin 2/5).
- 7085 PAKISTAN R. Pakistan; 2115-2147\* EE rx, cntry, pop mx. Good reception (Gionet 2/18).
- 7105 ASCENSION ISLAND BBC; 0255 EE World Service (Thompson, Alm). 0525 FF/EE interview or  
lang lesson (Hoffmann). 0545 EE ID, Rk in Hausa (Bryan). 0637 FF ID, rx (Poppin).
- 7105 BULGARIA R. Moscow Relay; 0215 EE w/DK Club introduction & rules (Edelstein 2/10).
- 7105 MONACO FR; 0700-0800 EE religious programs, mailbag (Gallagher, Bryan, Rude, Pyatt).
- 7110 KALI hdf du Mali; \*0600 Sundays//9635 & 11960. NA or march mx, Announ. in Vernaculiers.
- 7110 USSR MAYAK; 1400 RR w/mx//6130 (much stronger) (Hoffmann). (Willis).
- 7115 BULGARIA R. Sofia; 0430-0459 EE w/nx, cntry & ID's (Smith, Bishop, Edelstein).
- 7115 BULGARIA R. Moscow Relay; 0202 EEnx, ID, DA pgn, Moscow Mailbag (Edelstein 2/24).
- 7120 ALBANIA R. Peking Relay; 0130 EE mx in China (Schneck). \*0300 EE rx, cntry (Sabin).
- 7120 ENGLAND BBC; 0723 EE commentary on guerillas by a man (Bryan 3/6). Pyatt, Bryan).
- 7125 GUINEA Rdf Nat; 0322-0703 FF/Vern tlk, mx (Edelstein, Brookwell, Fedor, MacKay, Gionet).
- 7125 INDIA AIR; 1228 Tibetan w/IS, Tibetan tlk & local mx to Bhutan (Zilmer 3/4).
- 7125: RUSSIA UNID; 1246 Unid lang w/music with a Mid-East Asian flavor, tlk in lang (not  
Russian); RR TC at 1300. No ID heard. (Earhart). -I have R P&F w/Mongolian listed (ed)-
- 7135 FRANCE RFI; 0556 FF talk by man & woman, ID, sked. Fair signal (Krueger 2/12).
- 7135 USSR R. P&F; 0639 CC pgn with talk and chimes (Brookwell 2/26).
- 7139 INDONESIA RRI (Ambon); 1000 Indonesian ID after gongs//4845 (Laves 3/5).
- 7140 JAPAN NHK; 1620 Japanese with talk by YL & OM (Grenier 2/27).
- 7142: UNID; 0800 AA mx, very little talk, strong carrier, terrible mod. Algeria? (MacKay 2/16).
- 7145 GERMANY RFE; 0525 Polish booming in w/clear ID//7190 (Willis 2/27).
- 7145 NIGERIA NBC (Ilorin); 0617 EE rx, TC, ID, etc. (Bryan 3/6, Willis 2/27).
- 7145 UNID; 0730 lang w/flutes, drums, lang talk, etc. Nigeria? (Coiser 2/20) -Good chance-
- 7150 USSR R. Kiev; 0030 EE cntry, rx, interviews (Golden 2/23).
- 7150 USSR R. Rodina; 0146 RR w/nx, wx, ID//7215, 7290 (Edelstein 2/10).
- 7150 USSR R. Vilnius; 0100 EE w/Review of Weeks news, mailbag, mx, cntry. (Wilson 2/21).
- 7150 ENGLAND BBC; 0630 EE rx, cntry, ID (Bryan 3/6).
- 7150 GERMANY (WEST) DW; 0524 French program to Africa (Alm 2/24).
- 7160 FRANCE RFI; \*0400 FF w/IS, ID, nx by man. Heavy ARO Interference. (MacKay 2/20).
- 7160 USSR MAYAK; 1710 RR with Baritone mx "Don't Cry Veetotka", interview w/composer (Poppin)
- 7165 RYUKYU ISLANDS VOA; 1105-1400 EE w/mx (Gionet, Gaffin, Hoffmann, Earhart, Bishop).
- 7165 FRANCE RFI; 0730 French program with Hard Rock into Easy Listening music (Brookwell 2/27)

- 7165 PORTUGAL (?) RFE; \*0357 Bulgarian ID, IS, Tlk. Strong but Jamming (MacKay 2/20).  
 7170 GREECE VOA (Kavala); 0316 RR talk (Alm). 2115 EE World Report (Shotola).  
 7170 NEW CALEDONIA R. Noumea; 0640 FF nx, etc. (Wilson, Stauner, Bryan, Edelstein, Pyatt).  
 7180 MALAYSIA BBC Relay; 1330\* Cantonese talking (Brookwell 2/16). (Coiser).  
 7180 UNID; 0818 lang w/jazz, talk by OM, more jazz mx. Not USSR but does appear European  
 7185 ENGLAND BBC; 0650 EE w/woman reading letters, pop mx (Bryan 3/6).  
 7190 CHINA R. Peking; 0710 CC 2nd pgm w/talking (Brookwell 2/19).  
 7190 BENIN La Voix de Rev; 0638 FF ID, talk, nx (Brookwell). -Previous name was Dahomey-  
 7190 MOROCCO VOA; \*0200 Ukrainian program (Bishop 2/18).  
 7190 PORTUGAL RFE; 0641 Polish ID, etc. Unfamiliar IS heard at 0545, 0650, 0700 (Brookwell)  
 7190 YEMEN PDR DYBS; 0403 AA nx, ID, Various International Music (MacKay 2/20).  
 7195 JAPAN NHK; 1635 EE w/ID, nx by man (Bryan 3/6).  
 7195 LIBERIA VOA; 0300-0428 EE Breakfast Show, African Safaria, etc. (Thompson, Imbert, Alm).  
 7200 SUDAN R. Omdurman; 0415 AA Islamic chants, AA mx //5039 (Cress 2/17).  
 7200 ENGLAND VOA Relay; \*0300 English news and report feature (Bishop 2/26).  
 7200 USSR MAYAK; 1230 Classical mx, IS, tlc (probably RR) (Dettmann). 1850 RR tlc (Bryan).  
 7203 KOREA (NORTH) R. Pyongyang; 0840 lang; 0900 SS; EE 1033; 1049\* (MacKay 2/16).  
 7205 USSR Unid; 0357 RR singing. Time was announced at 12 Chasov 57 Min. That would put it in Yartusk area - not in Frunze as I have seen it listed. (Poppin 2/9).  
 7210 ETHIOPIA ETLF; 0425\* EE sign-off by male (MacKay 2/8).  
 7210 ENGLAND BBC; 0630 EE World Service News to West & Central Africa. HAM QRM. (Earhart).  
 7210 USSR R. Moscow; 0155 EE folk song, nx (Hutchins). -I have 7205 listed as freq. (ed)-  
 7215 GREECE VOG; 0417 Greek music w/vocals; Never on Sunday theme, M&W anners (McLaughlin)  
 7215 HUNGARY R. Budapest; 0200 EE ID (Schneck, Edelstein). 0300 EE nx (MacKay, Luce).  
 7215 USSR R. Kiev; 0030 EE nx, Mailbag, etc. (Edelstein, Greens, Schneck, MacKay).  
 7215 USSR R. Vilnius; 0100 EE w/IS, ID, nx, etc. (Steels, Edelstein, Schneck).  
 7225 ROMANIA R. Bucharest; 2124\* End of EE transmission w/ID & Freq's (Gionet 2/21).  
 7225 RWANDA DW Relay; 0430 EE nx, cmntry on Middle East, Orchestra mx (Thompson, Bryan).  
 7230 ENGLAND BBC; 0739 EE cmntry on rock & pop mx (Bryan 3/6).  
 7230 MONACO TWR; 0745 Yiddish ID & talks. Some HAP interference (Schipelliti 2/27). (Willis)  
 7245 ALBERTA RTVA; FF 0900-1200. Hrd during nite must tranverse from long to short path sig.  
 7245 GERMANY R. Liberty; \*0500 lithuanian (?) w/IS, Identification, news (Bishop 3/3).  
 7250 VATICAN STATE Vatican Radio; 2039 EE Religious pgm; 2045 Italian (Richardson 1/23).  
 7260 ENGLAND RCI Relay; \*0315 RR ID, nx (MacKay 3/5, McLaughlin 3/5).  
 7260 GERMANY (EAST) RBI; 2117 EE news by man (Gionet 2/21).  
 7260 USSR R. Moscow; 0900-1200 Asian Svc w/JJ noted mainly here. So this isn't Ulan Bator; sad to disappoint the reporter in last Frenex (Willis)-Thanks for the correction Mikel-1300 Korean talk by man, band mx (Brookwell 2/16). -I have Chinese listed here (ed)-  
 7264.3 TOGO Rdf du Togo; 0545 FF tlc, mx //5047 (Cress). t \*0800 FF tlc. SWF QRM (Coiser).  
 7265 GERMANY (WEST) Sudwestfunk; 0003 GG ID (Schwartz). 0335 GG mx, Id, etc. (Earhart).  
 7265 USSR MAYAK; 1716 RR w/baritone song "Fire of Seaman Kostov" (Poppin 2/5).  
 7265 YEMEN ARAB REP. R. Sanaa; 0432 AA w/mostly mx. ID heard//9780 (MacKay 2/8).  
 7270 ASCENSION ISLANDS BBC; 0500 EE World nx, Comments on South Africa, Uganda (Thompson).  
 7270 GREECE VOA (Kavala); 0340 EE with the Breakfast Show (Bishop 2/28).  
 7270 POLAND Polish Radio; \*0200-0230\* IS, EE ID, nx, Saturday Hit Parade (W. Smith, Kinnaly).  
 7270 SARAWAK R. Malaysia; 1040 Iban lang//5005 (Willis). t1234 CC tlc & no mx (Brookwell).  
 7270 SOUTH AFRICA RSA; 0300-0417 EE nx, cmntry, pop mx//5980 (Bryan, Willis, Imbert, Luce).  
 7275 TUNISIA RTVT; 0455-0737 AA tlc (Earhart, McLaughlin, Fedor, Edelstein, Willis).  
 7275 NIGERIA VON; 0425\* EE & Lang (Poppin, Plotnick). \*0645-0830\* EE (Edelstein, Shotola, Alm).  
 7280 LIBERIA VOA; 0330-0600 EE African Safari, nx abt Uganda Murders (Wilson, Grenier, Bryan).  
 7285 GERMANY DW; 0746 German talking with Harmonica music (Bryan 3/6).  
 7285 PORTUGAL; \*2030 Definite Deutschlandfunk ID after DW IS, then DLF IS 2030 $\frac{1}{2}$  then Czech news. ID & address at 2114; 2115\* w/Wines ID. (Coiser 2/10).  
 7290 USSR R. Moscow; 1051 CC with talking and no music (Brookwell 2/27).  
 7295 GREECE VOA (Kavala); 0640 EE with the Breakfast Show (Fedor 2/21).  
 7300 ALBANIA R. Tirana; \*0230-0300\* EE nx, cmntry, mx (Sobin) 0340 EE tlc (Rubak).  
 7315 USSR R. Moscow; 1125 VV "Day la dai Phat Thanh Moscov" (Magne).  
 7325 ENGLAND BBC; 2345 EE pop mx with male DJ (Bryan 3/6).  
 7325 ENGLAND VOA Relay; 0635-0700\* EE tlc, feature on Chinese New Year (Alm 2/18).  
 7335 USSR R. Moscow; \*0600-0615\* FF news to Africa//9490 (Gionet 2/28).  
 7340 USSR R. Moscow; 1428\* Japanese pgm w/RR ID & IS (Brookwell 2/9).  
 7345 CZECHOSLOVAKIA R. Prague; 0100 EE (Bryan, Fraser, Rude). 0300 EE (Hartsell, Edelstein, Rubak).  
 7355 USSR R. Moscow; 0115 EE N American Svc w/mx, Reading of letters, sports (Woltman 2/22).  
 7360 USSR R. Moscow; 1900 EE with news program. QRM from strange beeping (like CW) (Goldman).  
 7374.5 VIETNAM VOV (Hanoi); Asian language 1120 w/talk, no ID audible (Magne).  
 7400 USSR R. Moscow; 0429 RR 5th pgm (Brookwell 2/20).  
 7400 USSR R. Vilnius; 2310 EE ID w/political tlc//7245, 7215, 7150 (Cohen 2/26). (Woltman).  
 7412.5 ISRAEL IBA; 0500 EE nx//9815, 11960, 12045 (Edelstein, Zilmer). 2000 EE (Poppin). 2230 EE nx  
 7420 USSR R. Minsk; 2130 Bylrossian tlc, mx. R P&P pgm up to 2130. (Earhart 2/20).  
 7415.5 VIETNAM VOV (Hanoi); 1115 VV tlc by man (Magne). 1415 VV tlc & Orchestra mx (Beal).

- 7460v ISRAEL IBA; 0400-0435+ Hebrew tlk, mx//9350 (Godfrey, Goldman, Zilmer).  
 7504 CHINA R. Peking; 1732 CC talking (Poppin 2/5).  
 7511.5 VIETNAM VOV (Tay Nguyen); 1315 Tlk in sked Cantonese. Fair but UTE QRM (Laves).  
 7590 CHINA R. Peking; 2115 EE tlk by a man (Goldman 3/6).  
 7770 CHINA R. Peking; 1627 CC with Chinese female vocalist (Poppin 2/11).  
 9009 ISRAEL IBA; \*2000 EE news, 'Calling All Listeners'//7412.5 (Zilmer 3/6).  
 9022 IRAN VOI; 0022 Persian tlk (Filka). 2000 EE nx (Stees, Schwartz, Schneck).  
 9030 CHINA R. Peking; 0024+ SS tlk (Poppin, Schwartz). 125h Asian tlk, EIR IS (Brookwell)  
 9064 CHINA R. Peking; 1400 CC 1st pgm HS (Brookwell). 1640 CC tlk & mx (Poppin).  
 9300 SYRIA SARBS; 2030-2045 EE ID, nx, cmntry, mx (Altman 2/3).  
 9350 ISRAEL IBA; 0450 Hebrew tlk. HS //9350 (Zilmer). 0600 Hebrew (Willis). 2100 Hebrew nx & tlk (Filka). 2250-2305 Hebrew talk (Zilmer).  
 9360 SPAIN RTVE; 0018-0115 SS ID, talk, mx, etc. (Filka, Beal, Poppin, McManus).  
 9365 CHINA R. Peking; 1255 lang & International (Goldman) 1323 CC tlk (Brookwell).  
 9390 CHINA R. Peking; 1252 SS tlk & ID (Goldman). 1446 Tagalog tlk, Internat.(Brookwell).  
 9420 KOREA (NORTH) R. Pyongyang; 1646 RR ID (Poppin). 1753 Korean cmntry; 1759\*(Poppin).  
 9425 ISRAEL IBA; 2000 EE nx//15512, 9009, 9815, 7412 (Zilmer 3/6).  
 9435 ISRAEL IBA; 2230 EE nx//11655, 9815, 7412 (Zilmer 3/7).  
 9440 CHINA R. Peking; 1439 Cambodian talk with bad Het (Brookwell 2/10).  
 9450 USSR R. P&P; 0138 SS program with strange noises on frequency. ID (Goldman 3/8).  
 9450 USSR R. Moscow; \*1930-2000\* FF nx, mx pgm//9490,9600,7120 & 7400 (Gionet 2/27).  
 9450 USSR R. Minsk; 1800 RR ID "Govorit Minsk", tlk, TC, mx, etc. (Poppin 2/5).  
 9455 CHINA R. Peking; 1333 Thai pgm (Brookwell 2/9).  
 9455 EGYPT R. Cairo; 0435-0510 AA talk & mx. HS. (Bogel 3/2, Earhart 2/13).  
 9465 CHINA R. Peking; \*2200 lang w/ID & cmntry (Fraser). -I have R. Peking broadcasting in Quechua on 9470 kHz listed (ed)-.  
 9470 CHINA R. Peking; 1248 EE (Goldman, Brookwell). 1343 EE (Florian). 1935 EE ID (Bogel).  
 9475 EGYPT R. Cairo; 0205-0300 EE nx. (Alintuck, Godfrey, Cohen). 2055 AA tlk & mx (Bryan).  
 9480 ALBANIA R. Tirana; 2226\* EE announcement, International, sign-off. Good. (Florian).  
 9480 CHINA R. Peking; Tamil service, 1414 Band mx to S.E.Asia. Strong (Brookwell 3/1).  
 9490 USSR R. Moscow; 1404 lang to 1440 ID into RR pgm (Brookwell). 2100 EE African Service, nx, cmntry, Listeners Club (mentioning a brave monitor from Egypt) (Dubrick).  
 9495 EGYPT R. Cairo; 0700 Arabic program at best level ever heard (Willis 3/3).  
 9495 ISRAEL IBA; 2228 FF talk; 2230 English pgm //9435,5900,7412,9815 (Florian 2/20).  
 9500 USSR R. Moscow; \*1630 IS, RR ID, nx. Fair (Beal). -Is this RM or MAYAK?? (ed)-  
 9505 DOMINICAN REP R TV Dominicana; 1505 SS political speech, ID (Krueger 1/27).  
 9505 JAPAN NHK; 0411 EE cmntry on Fishing Relations between Japan & Russia (Bryan 3/6).  
 9505 PHILIPPINES FEBC; 1620-1646 GG w/Religious mx, tlk. 1645 RR ID, s/off (Bogel 2/23).  
 9505 PORTUGAL RFE; 0505 Bulgarian (?) w/high pitched voice, mx (Earhart 2/13).  
 9510 KOREA (NORTH) R. Pyongyang; 1430 French pgm to S.E.Asia w/Het from UTE (Brookwell).  
 9510t SEYCHELLES FEBA; 1730-1745 EE religious pgm, ID, IS into AA pgm (W. Smith, Bryan).  
 9515 AUSTRALIA R. Australia (Shepparton); 0649-0830 EE nx, mx (Hutchins, Gallagher, Schneck)  
 9515 TURKEY VOT; 1115 Turkish talking and music (Bryan). 2200-0030\* EE nx, etc (Luce, Gallagher, Bernstein, Pollard, Alintuck, Cooper, Beal, Imbert, Bishop, Kinnaly, Wilson).  
 9520 CHILE R. Centinela; 1240 SS tlk with a very bad HET. Fair to Poor (Sarrazin 2/9).  
 9520 PAPUA NEW GUINEA NBC; 0800 EE program (Schneck).  
 9520 SPAIN RTVE; 0020 SS talk, music and identification (Yajko 2/22).  
 9520 SWAZILAND TWR; 0402 GG talk and religious-type music (Edelstein 2/11, Sarrazin 2/9).  
 9520 USSR MAYAK; 1230 RR nx, IS, TC. According to UHN-2, should be 1st pgm (Edelstein).  
 9520 USSR R. Moscow; 2230 SS ID, news read by a man and woman (Edelstein 2/16).  
 9525 CUBA RHC; \*0626 EE ID into English program, news, commentary (Gallagher 2/16)  
 9525 INDIA AIR; 2202 EE nx, comment at 2210, interviews (Florian 2/20).  
 9525 JAPAN NHK; 1348 Indonesian; 1400 Thai; 1430 Chinese; 1515 s/off. EE ID (Brookwell).  
 9530 JORDAN HKBS; 1255 AA mx, pips on hour, world nx in AA (Sarrazin 2/8).  
 9530 USSR R. P&P; 0401 SS "R. Paz y Progreso..." ID, cmntry (Lombard 3/7).  
 9535nf IRAN VOI; \*1400 Not sure of lang; perhaps Farsi. Excellent level (Willis 2/24).  
 9535 SWITZERLAND SBC; 2115 EE Swiss Merry-Go-Round (Alintuck 2/12, Cohen 2/26).  
 9540 AUSTRALIA R. Australia (Shepparton); 1900 w/nx about Romanian Earthquake (Bryan).  
 9540 CZECHOSLOVAKIA R. Prague; 0104 EE nx, Jazz Orchestra, ID, folk mx, tlk (Earhart).  
 9540 UZBEK SSR R. Tashkent; 1400 IS, EE w/program review, nx//6025 & 9600 (Florian 2/27).  
 9545 PHILIPPINES VOA (Por); 2300 EE with the Breakfast Show, nx (Bishop 2/29).  
 9545 SWEDEN R. Sweden; \*1358 EE transmission to S. Asia. Poor to Fair (Brown 2/16).  
 9550 CUBA RHC; 1645\* with Spanish ID, music, s/off (Alexander 2/26).  
 9555 KUWAIT R. Kuwait; 1805 EE pop mx pgm, ID (Greens 2/21).  
 9555 GERMANY (WEST) R. Liberty; 0030 Armenian tlk on Carter (Gaffin 3/2).  
 9560 ECUADOR HCBJ; 0130-0500 EE Religious pgm, DX Party Line, etc. (Craig, Brown, Thompson, Gallagher). 0300 EE; perhaps heading criticism in the DX Press that its news is identical to that on American radio, noted 3/1 opening with a summary of Ecuadorian and South American news taken from "El Comercio" newspaper in Quito. Much more interesting and useful that way! (Hauser).

- 9560 ANTIGUA BBC; 2155 IS, PP ID, nx, English By Radio (Alintuck 2/19).
- 9560 AUSTRALIA R. Australia (Carnarvon); 1420 CC (MacKay). \*2058 Indonesian (Krueger).
- 9560 BULGARIA R. Sofia; 1700 AA ID (Alexander). 2120 EE Foik mx pgm; 2129 FF (Florian).
- 9560 JORDAN HKBS; 1616-1635 EE ID into lang. ID. (Edelstein 3/5, Beal 2/14).
- 9565 GERMANY (WEST) DW; 0135 EE w/political commentary. QRM. Fair (Brown 3/4).
- 9566 CHILE V. of Chile; 0108-0127 EE nx (Fraser, Godfrey, Filka). 0270 EE nx (Greens).
- 9570 AUSTRALIA R. Australia (Shepparton); 0700-0900\* EE nx, etc. (Gallagher, Cooper).
- 9570 QATAR QBS; 1410 AA ID "Huna Doha", AA nx. Absolutely staggering signal!! (Coiser 2/27)
- 9570t ROMANIA R. Bucharest; 0330 Unid lang w/orchestra mx. Female announcer (Earhart 3/6).
- 9575 AUSTRALIA R. Australia; 1300-1400 JJ tlk (Ohtake). 1400 EE ID, nx (Hynes 2/23).
- 9575 ITALY RAI; 0102-0120 EE nx, cmntry (Golden, Beal). 2250 Italian tlk (Bryan). Fraser).
- 9580 AUSTRALIA R. Australia (Shepparton); 1115-1300\* EE (Troster, Craig, Pollard, Woltman)
- 9580 ASCENSION ISLANDS BBC; 0100 EE (Brown). 0335 EE (Edelstein). 2100 EE WRC (Alintuck).
- 9580 CANADA BBC; 1645 EE with a Review of the Weeks News (Schneck 2/25).
- 9580 KUWAIT R. Kuwait; 1858-1915\* EE ID, pop mx, etc. (Gionet 2/12, Hammer 2/13). (Godfrey).
- 9580 USSR R. Moscow; 0329 IS, EE ID, nx (Thompson). 0525\* EE cmntry on James Earl Ray
- 9580 PHILIPPINES VOP; 0805 JJ into EE (Gallagher). 1510-1610 EE (Dettmann, Godfrey, Grenier,
- 9585 HUNGARY Budapest; 0740 Turkish pgm on Sunday 2/28 (Willis). Thompson).
- 9585 JAPAN NHK; 1700 EE ID, nx; 1715 JJ (Thompson). 2315 EE talk. Poor (Fedor).
- 9585 SOUTH AFRICA RSA; \*0300-0405 EE nx, ID, etc. (Rubak, Edelstein, Earhart, Godfrey). 0440-0458\* Lozi (Troster). 2055-2150\* EE (McManus, Stees, Bryan). 2230 EE cmntry (Schneck)
- 9585t SYRIA SARBS; 1945-2000 AA talk. Terrible Het from RSA after 1955 (Earhart 3/6).
- 9585.6 USSR R. Sta Pacific Ocean; 1449 RR ID and talking (Poppin 2/13).
- 9590 SOMALIA R. Mogadishu; 2045 AA mx and talk by man. (Bryan 3/6).
- 9590 SWAZILAND TWR; 0455-0500 EE DX pgm, Religious pgm (Gallagher, Florian, Hoffmann).
- 9590 UNID; 1342 Oriental lang w/US rock mx, M&W announcer, Time pips, cmntry by man (Dettmann).
- 9595 JAPAN NSB; 1120 JJ nx (Bryan). 1520-1545 OM & YL in EE & JJ; mailbag (Dettmann, Rude).
- 9600 UZBEK SSR R. Tashkent; 1216 EE tlk (Earhart). 1415 EE. 5975, 6075, 9540 not audible.
- 9600 USSR; Magadan 1908 Russian talk by man & woman (Bryan 3/6). (Hardester).
- 9600 CZECHOSLOVAKIA R. Prague; 1540 Lang with nx, etc. (Beal 2/13).
- 9605 CANADA DW Relay; 0350 GG ID, nx, etc. (Bogel 2/22, Poppin 2/7).
- 9605 JAPAN NHK; 1849 EE with Japanese language lessons by M&W (McManus 2/25).
- 9605 SWEDEN R. Sweden; 0330 Swedish (Luce). 2100 EE nx/11845 (Zilmer).
- 9605 VATICAN STATE Vatican Radio; 0115 EE into FF pgm (Cohen 2/21).
- 9610 AUSTRALIA VLM9 (Perth); 1500-1600\* EE nx (MacKay). 1134 EE w/rock mx (Bryan).
- 9610 GERMANY (WEST); 1830\* Noted w/Polish ID as the information pgm from Deutschlandfunk over Deutsche Welle facilities, address given by YL. (Coiser 2/20). -See 7285 kHz (ed)-
- 9615 MOROCCO RTVM; 2305 AA tlk & mx (Bryan 3/6, Beal 2/24).
- 9615 USA KGEI; 0130 SS ID, nx (Alexander). 1220-1403 SS ID, relig. mx (Goldman, Dettmann).
- 9615 VATICAN CITY Vatican Radio; \*0000 SS w/world Religious nx. Very good (Gaffin 3/2).
- 9620 ECUADOR HCJB; 0525-0529\* RR relig. pgm. Pulled plug in middle of hym (Earhart, Brown).
- 9620 UNITED ARAB EMIRATES V. of the UAE; 1550 local orchestral and flute meardings, AA anncts at 1600. Xed BBC & Belgrade, but respectable level on 2/5 (Bunn).
- 9620 USSR R. Moscow; 2005 EE signal to Africa. Weak (Gionet 2/12).
- 9620 YUGOSLAVIA R. Belgrade; \*2200-2215\* EE ID, nx, etc. (Earhart, Imbert, Cooper).
- 9625 CANADA CBC Northern Svc; 0155 EE mx (Beal). 1905 pgm on Travel in Canada; EE (McManus).
- 9630 NETHERLAND ANTILLES R. Nederland; \*0630 EE nx (Gallagher 2/16).
- 9630 SPAIN RTVE; 2332 SS Drama (Bryan 3/6).
- 9640 ENGLAND BBC; 0800 English with the news (Bishop 2/27).
- 9640 KOREA (SOUTH) R. Korea; 1615 EE tlk on History of KBS (Imbert). 1653 Korean (Poppin).
- 9645 PHILIPPINES R. Veritas; 1400 EE ID, freq., address, talk, etc. (Imbert 2/19).
- 9650 GERMANY (WEST) DW; 0941 EE news about Pakistan (Bryan 3/6).
- 9650 MOROCCO VOA; 0305 EE news followed by music and more news items (Gionet 3/3).
- 9655 COLOMBIA R. Nacional; 0400 SS ID (Edelstein, Beal). 0955 SS (Bunn). \*1200 SS (Roberts).
- 9655 CUBA RHC; 0356-0400 SS Identification, mx, talk by man & woman (Dettmann 2/13).
- 9660 VENEZUELA R. Rumbos; 0331 SS ID, tlk, nx (Rubak). 0900 SS ID, mx (Gallagher).
- 9665 BRAZIL R. Nacional Brasilia; 0228 PP ID (Earhart) 0900 PP ID & tlk (Gallagher).
- 9665 GERMANY (EAST) RFI; 1730-1745\* PP talking by a man (C. Sherman).
- 9665 SWEDEN R. Sweden; 1600 EE news & panorama (Godfrey 2/20).
- 9665 USSR R. Sta. Tikhy Okean; \*1429 RR s/on, ID by man & woman into talk by M (Florian).
- 9670 JAPAN NHK; 1647 EE talk about Japan, DX News; 1700 French. Very Good (Bogel 2/27).
- 9670 MALAYSIA BBC; 0947 English w/sports and news read by a man (Bryan 3/6).
- 9670 SAUDI ARABIA BSKSA (Jeddah); 1350 AA w/Koran at Good level (Coiser 2/27).
- 9675 GREECE VOG; 1923 EE news (Greek and International) (Goldman 2/18).
- 9675 KOREA (SOUTH) R. Korea; 0640-0700\* SS pgm w/bits of Korean mx, ID (Gallagher 2/15).
- 9675 PERU R. Del Pacifico; 1115 SS w/Guitar music and good identification (C. Sherman 3/2).
- 9680 SOUTH AFRICA RSA; 0600 EE w/end of "Saturday Mirror" pgm into nx after ID (Gallagher).
- 9685 CUBA RHC; 0150 EE letter show (Alintuck) 0315 EE cmntry on Cuban life (Brown).
- 9685 TAIWAN VOPC; 1700 EE w/many ID's, Chinese mx. Announcemet that 1700-1800 broadcast will be changed to 2130-2200 on 9685, 11825. 17890 (Beal 2/25, Thompson 2/21).

- 9690 ARGENTINA RAE; 0300 EE PGM; 0400 SS (Rubak, Brown, Edelstein, Golden, Cooper, Miller).  
 9690 ANTIQUA DW; 0700 IS, GG ID, nx (Gallagher 2/16). (Roberts).  
 9690 CHILE R. Nacional; 1055 SS nx in Depth, TG, ads for "Banco Sudamericana" //6195  
 9695 BRAZIL R. Rio Mar; 2345 PP ID and ads. Poor (Bishop 3/2).  
 9695 CAMBODIA Democratic Cambodian R; 0048-0100\* Khmere talk (Coiser, Willis).  
 9695 FRANCE RFI; 1710 EE ID "Paris Calling Africa", nx//9550,9505,9745,9695 (Alexander).  
 9695 SWEDEN R. Sweden; \*0158 IS, EE ID (Beal) - I have PP listed (ed)- 2314 EE (Bryan).  
 9700 AUSTRALIA R. Australia (Carnarvon); 2259 EE ID into Thai pgm (Florian 2/20).  
 9700 BULGARIA R. Sofia; 1945-2000\* EE (Godfrey). 2130 EE; 2200 Italian (Schneck, Luce).  
 9700 SEYCHELLES FEBA; \*0300-0415\* EE (Willis, Breedon, Gallagher, Fedor, Gaffin, Luce, Cohen).  
 9705 ALGERIA RTVA; 1630 AA w/AA mx (Alexander 2/26). Bishop, Hauser, Krueger).  
 9705 ARGENTINA R. El Mundo; 1030 SS news by man & woman after good ID (S. Sherman 2/22).  
 9705 BULGARIA R. Sofia; 0000 EE ID, nx; 0100 Bulgarian (Earhart, Brown, Bishop, Luce).  
 9705 INDIA AIR; 1115 EE news read by a man and Indian music (C. Sherman 2/23).  
 9705 MEXICO R. Mexico; 0300 SS tlk (Shotola). 1315 SS tlk, EE ID (Frajler). 2200 SS (Thompson)  
 9710 ITALY RAI; 0330 RR (Luce). 0350-0410 EE news read by a woman (MacKay, Pollard).  
 9710 SOUTH AFRICA Springbok Radio; 0530-0550 EE ID, ads, mx (Gallagher, Hammer, Bishop).  
 9715 GERMANY (WEST) R. Liberty; 1600 IS, RR ID "Gorivite R. Svoboda" (Coiser 2/21).  
 9715 HOLLAND R. Nederland; 2158-2230 Dutch. Sunday only (Bogel). 2240-2245 EE (Alintuck).  
 9715 PHILIPPINES FEBC; 1300-1400 Japanese religious program (Ohtake 2/27).  
 9720 SAUDI ARABIA BSKSA (Riyadh); 1400 AA news (Coiser 2/27). Greenier).  
 9720 KOREA (SOUTH) R. Korea; \*1800 EE news, Listeners Corner (Thompson, Imbert, Bogel,  
 9720 SRI LANKA SLBC; 0032-0200 EE ID, mailbag, Back to Bible (Dubrick, Edelstein, Florian).  
 9720 USSR R. Atlantika; 1632 RR news read by a man and woman (Earhart). (Earhart).  
 9725 PORTUGAL RFE; 0013 Czech w/Jamming. 0039 Jamming stopped; RFE gave ID, IS, s/off.  
 9725 SWITZERLAND SBC; \*0145 EE Dateline, nx, mx (Bishop 3/2, Stees 3/4).  
 9730 GERMANY (EAST) RFI; 1905 English talking (Goldman 3/7).  
 9730 SAUDI ARABIA BSKSA (Riyadh); 1950 AA talk, band music, possible ID (Earhart).  
 9730 UGANDA UBC; 2030-2100\* EE ID, news, Country-Western mx (Bogel, Godfrey, Bryan).  
 9730 USSR R. Peace & Progress; 1243 EE ID & Propaganda (Florian). 1430 EE nx (Godfrey).  
 9735 RWANDA DW; 2200 German talking and music with a good signal (Hutchins 2/24).  
 9735 USSR R. Moscow; 0430-0500 EE Letter Program, Comments on Soviet Life (Gallagher 2/23)  
 9745 BRAZIL R. Cultura; 0105 Portuguese announcements, Female Opera Singer (MacKay 1/24).  
 9745 IRAQ R. Baghdad; 1935-2030 EE ID, AA lessons, mx (Bishop, Alintuck, Stauner, Schneck).  
 9745 USSR R. Moscow; 0355 EE nx (Imbert). 1900 Lang (Brown). -I have Barbara listed as lang-  
 9750 CHILE R. Minería; 1100 SS talking, economic report, ID's (Gallagher 2/14).  
 9750 MALAYSIA VOM; \*2155 Indonesian pgm after Interval Signal. V. Good signal (Coiser 2/18).  
 9755 EGYPT R. Cairo; 0600 Arabic program. Good level (Willis 2/20).  
 9760 AUSTRALIA R. Australia; 0815 EE Relay of Papua New Guinea w/Songs of 70's (Beal 2/12).  
 9760 GREECE VOG; 0015 EE PGM; 0030 SS (Godfrey, Beal, Schneck, Cohen, Imbert, Gallagher).  
 9760 MOROCCO VOA; 1915 EE African Panorama (Brown). 2120 EE Black Opera Singers (Wilson).  
 9765 USSR R. Rodina; \*1400 RR w/IS and Identification. Then talk by man (Uerlings 3/5).  
 9770 AUSTRIA ORF; 2300\* GG phm (Luce, Beal). 0100 FF; 0130 EE ID, nx (Steas, Cohen).  
 9770 CUBA RHC; 0334 EE w/Latin America mx, ID, Freq & Commentary (Rubak 2/15).  
 9770 HAITI LVEH; 1300-1400 English Religious Program (Ohtake 3/6).  
 9775 USSR R. Peace & Progress; 1359 EE ID then sign-off of EE into another lang (Bryan).  
 9780 CHINA R. Peking; \*0100 EE news, "Across the Land", etc. (Steas, Edelstein, Cooper, Pollard)  
 9780 USSR Unid; 1709 Russian w/message from recent discharged soldier to family, mx (Poppin).  
 9780 YEMEN ARAB REF R. Sanaa; 2030 AA talk & vocals (Beal). 2115 AA tlk (Hammer). (Brown).  
 9805 EGYPT R. Cairo; 2200 EE (Wilson, Bernstein, Beal, Stauner, Bryan, Gaffin, Poppin) \*2330 FF  
 9810 USSR MAYAK; 0400 RR ID, Folk mx (Poppin). t0218 Classical mx. (Earhart).  
 9815 ISRAEL IBA; \*2000 IS, FF ID (Beal). 2230-2302\* EE nx//11655,9435 (Zilmer, Bogel).  
 9820 KOREA (NORTH) R. Pyongyang; 0735 EE heard at fine level (Willis).  
 9850 EGYPT R. Cairo; 0300 AA chants (Luce). 0440 AA Voice of Arabs pgm, Piano mx (Earhart).  
 9860 CHINA R. Peking; 1730 English program (Beal 2/14). (Laves 3/4)  
 9860 CHILE R. Nacional; 0100 SS. Not 2 x 4930 as I checked 4930 & found it w/no Chile. Relay?  
 9895 HOLLAND R. Nederland; 1458 EE ID (Poppin). 1815 Dutch (?) (Cohen). 2350 SS (Earhart).  
 9912 INDIA AIR; 0005-0045\* Tamil (MacKay, Bryan). \*1745\* AA (Beal, McManus). 2207\* EE (Greens,  
 11290 CHINA R. Peking; 0022 CC 1st pgm HS w/mixed Chorus//11330 (Brookwell). Goldman).  
 11350 KOREA (NORTH) KCBS; 0010 Korean commentary (Poppin 2/11).  
 11445 CHINA R. Peking; 0036 Hakka Service (Brookwell). 1216 Amy w/talk & no mx (Brookwell).  
 11630 EGYPT R. Cairo; 1853 AA chanting (Goldman 2/15).  
 11650 CHINA R. Peking; 0105 SS tlk (Goldman, Gaffin). 0305 EE World News (Grenier).  
 11655nf ISRAEL IBA; 1210 EE (Beal). \*2200-2300\* FF/EE (ex 11625). 11625 now used \*2000-  
 2305\* for Hebrew Home Service. Near MUF so strong some days, weak others (Magne).  
 11660.5 UNID Time Station; A3a mode, continuous TC's every 10 sec. by W in SS 2235-2305 but no  
 ID at hour, is either new time sta or a Fixed using local time audio for tests (Magne).  
 11695 CHINA R. Peking; 1223 Cambodian with talk and no music (Brookwell 2/13). George).  
 11700 DOMINICAN REP CR; 1824-0000 SS (w/EE 2330-2400) (Earhart, Alexander, Brown, Bishop, Kinnaly,  
 11700 VATICAN CITY; 0000 SS; 0100 EE nx (Earhart). 1945 Latin Rosary; 2028 PP (Bogel). 7B, 10m

# log report *section*



David L. Walcutt, Editor

25,639 meters and shorter

APRIL, 1977

- 11705 FRANCE RFI; 1705-1720 EE, "PCA" (Alintuck 2/13); 2010 FF, M&W nx, //11890, 11930 (Bryan-CA 2/21).
- 11705 NEW ZEALAND RNZ; 0110-0120 EE, nx, poor (W.Smith-MA 3/6); 0544-0603\* EE, ID, Gary O'Hearn w/cricket results: Australians belted two into the grandstand!!; bellbird 0603 & cont'd on 11780, exc. (Poppin 2/7); 0545 EE, mx into sports nx (Hammer-OH 2/17); 0545-0630 EE, Samoan, nx, ID, Samoan nx (Schneck 3/8).
- 11705 VATICAN VR; 2215-2235 EE, tlks (Beal 2/24, Troster 2/19).
- 11710 ARGENTINA RAE; 2310-2330 EE, Industrial Argentina, Jazz mx, nx (Stees 3/1); 2230 SS, tlks, ID (Tannenwald 2/21).
- 11710 USA WINB; 0000-0100\* EE, rel tlk, M (C.Sherman 2/23); 0050-0100\* EE, hymns (Earhart-PA 2/8).
- 11715 VATICAN VR; 1835 SS, rel w/w tlk, fair (Beal 2/17).
- 11720 CANADA CBC N.S.; 1555-1603 EE, W cmntry, M wx, "Sunday Morning", fair (Dettmann 2/13); 1608-1613 EE, phone interview, //9625 (Edelstein 3/5); 1630-1700 EE, "Royal Can. Air Parce" (Godfrey 2/19).
- 11730 GREECE VOG; 1515-1525 EE, 10 min. EE nx during Greeg px, //17830, poor (Zilmer 2/27); 1525 EE, nx (Yajko 2/20); 1533-1550, lively mx under RN AA-pgm (Bogel-CA 2/26).
- 11730 HOLLAND RN; \*1829 EE, IS, ID, nx, to Africa (Alexander 2/26); 1830-1900 EE, "Happy Station" show (Alintuck 2/13); 1903 EE, mx, Tom Meyer, ID (Bryan-CA 2/20); 2130 EE, nx, report on Portugal (Bishop 2/28).
- 11730 MALAGASY REP. RN-Talata; 2015 EE, "Happy Station" (Granone 2/6); 2000 EE, IS, M, s/on, "Happy Station" (Bryan-CA 2/20).
- 11735NF SWEDEN RS; 1230 EE, nx to E.Asia, //21690, 15305 (Zilmer 3/6).
- 11735 YUGOSLAVIA R. Belgrade; 0120-0127\* SS, tourist pgm on Montenegro, fair (Gaffin 3/2); 0130\* SS, tlk, mx, IS at s/off (Mackay 2/24).
- 11740 HOLLAND RN-Iopik; 1735-1750 AA, Western-style pop mx, M tlk, v. poor (Bogel-CA 2/25); 2120\* FF, pop mx (Bryan-CA 3/6).
- 11740 MALAGASY REP. RN-Talata; 1850 AA, M AA tlks, chants from 1900, slight flutter, fair (Beal 2/17).
- 11745 UNID. 1532-1547\* FF, mx of different kinds, ID, freq. ann't, hrd "Afrique Orientale" (Bogel-CA 2/9). Sounds to me like Paris -ed.
- 11750 UK BBC W.S. 1605-1610, M w/nx, good (Dettman 2/13); 2022, M&W Reading letters (Bryan-CA 2/20). Howabout some details guys? -ed.
- 11755 ARGENTINA R. El Mundo; 0540-0621 SS, ID, songs, mx, little tlk, strong - "Aguavita" singing ad (Poppin 2/28).
- 11755 FINLAND RF; 1320 EE, variety mx to 1330 into EE w/"Finland Calling" & nx, fair (Beal 2/14); 1547-1600 Finnish?, M tlk, ID, good (Bogel-CA 2/26); 2330-0000 EE, letterbox pgm to N.Am., QRM covered them, poor (Zilmer 3/6).
- 11755 USSR Unid site; 1239 AA, M tlk - too strong for Leningrad - suspect Vlad., poor (Brookwell 2/13). I don't know either -ed.
- 11770 USA VOA-Dixon; 0205 EE, nx, excellent (Goldman 2/22).
- 11775 INDIA AIR G.O.S.; 1055 EE, nx by M, 1057 ID "This is Delhi", freq. announcement, 1100\* (Hutchins 2/11).
- 11775 SPAIN RNE; 2319-2325 SS, ID, "Song of Valencia"; chorus, flute w/tenor, clear & distinct announcers (Poppin 2/5).
- 11780 BRAZIL RNB; 2005 EE, Braz. vocal compositions, ID (Tannenwald 2/21); \*2100-2115 EE, IS, ID, pgm preview, letterbox, fair (Roberts-MAN 2/13); 2140-2159\* EE, Braz. mx, "Mystical Lake" feat. (Bishop 3/1).
- 11780 NEW ZEALAND RNZ; 0700-1030\* EE, varieties (5 reporters).
- 11780 USA WYFP; 2205 EE, relig pgm (Noonan 3/6).
- 11785 BRAZIL R. Guaiba; \*0900-1040 PP, Braz. rhythms (Willis-AUST 2/20, Bishop 2/16, Bunn-AUST 2/27 via South Polar route).

- 11785 SPAIN RTVE; \*1958 SS, ID by M, tlks by M&W. Canaries? (Beal 2/28). All the schedules only show 11880 as Canary Islands-Tenerife -ed.
- 11789.2 INDONESIA VOI; 1251 CC, songs, poor (Brookwell 2/13); 1400-1500 EE, nx, pgm on small farmer, mx (Godfrey 2/16); 2335 EE, mx, nx, IDs, fair (Kinnaly 3/2).
- 11790 PORTUGAL RP; 0015 PP, mx of Glenn Miller, jazz to 0100 (Beal 3/1).
- 11790.3 UNID R. \_\_\_\_\_; African? hrd at deadline time w/dramatic sketches, EE, 1315-1500, market report, commodities/financial nx at 1446; poor due to USSR QRM on 11790, ID at 1400 (Walcutt 3/22).
- 11795NF TAIWAN VOFC; 1245-1314, JJ to 1300, ID, into Amoy to Japan & Korea, play with temple bells & babies, //11825 (Brookwell 2/13).
- 11795 GERMANY W. DW; 1735-1750\* GG, sounded like play, IS, ID, freq'y ann. & NA, fair w/fading (Bogel 3/6).
- 11795 USA AFRTS via VOA-Dixon; 1922 EE, auto racing, //11790 (Noonan 2/20).
- 11795 RWANDA DW-Kigali; 2100+ GG, nx for N.Am. (Godfrey 2/20). This is scheduled for 2200 so it appears your GMT is 1 hr. wrong -ed. 2225 GG, waltz mx, nx, good (Beal 2/24).
- 11800 JAPAN NHK; 2345-2353 EE, IS, ID, nx, v. poor (Richardson 27/11(?)), 2345-0015 EE, ECNA Svc, fair (Ohtake 3/5), 2352 EE, M, sport, nx, //15270 (Bryan-CA 3/6).
- 11810 ANTIGUA DW; \*1300-1350\* GG for N.Am. (Beal 2/14, Mackay 2/19).
- 11810 INDIA AIR G.O.S.; 1350 EE, Indian mx, fair, heard only after DW signs off (Mackay 2/19); 1410-1430 EE, Radio Newswire, then Indian music (Mayer 2/28). To Southeast Asia per schedule -ed.
- 11815 ASCENSION IS. BBC W.S.; 1905 EE, "Radio Theater", //11750 but a few seconds behind (Gionet 2/20).
- 11815 JAPAN NHK G.S.; 1710 EE, nx, into JJ at 1715 (Imbert 2/13); 2000-2005 EE, M reading world nx (McManus 2/25); 2120 JJ (Bryan 2/20).
- 11820NF SAUDI ARABIA BSKSA; 1535-1605 AA, mx, annets, ID "Izaat al Mamlaakat al-Arabiyyah as-Saudiyyah min Ar-Riyadh" into AA drama, fair, NF, //11950 (weaker) (Roberts-MAN 2/12). Maybe moved from 11825 so as not to trample Kuwait -ed. 1617, AA-type chanting, ID at 1618 (Goldman 2/21); 1755-1830 AA, ID 1800 then mx, good (Brown 2/17).
- 11825 AUSTRALIA RA; 1515-1530\* Cantonese, mx, IS, nx, ID in EE (Godfrey 2/25).
- 11825 SOCIETY IS. R. Tahiti; 0330-0455 Tahitian, Polynesian mx & U.S. songs (Thompson 2/22, Hartsell 2/24, Earhart 2/13); 0515-0640 FF, songs in TT, FF & EE, cmntry (Poppin 3/6, Schwartz 3/7).
- 11825 TAIWAN VOFC; 1222-1226 JJ, M, tlk, pop mx, poor (Egelstein 2/17); 1245-1310 JJ to 1300 ID, into Amoy, //11795, fair (Brookwell 2/13).
- 11830 GREECE VOA-Kavala; 1500\* RR, s/off IS played on harmonica - cutting down overhead; fair (Brookwell 2/11).
- 11830 VATICAN VR; 1650+ FF, 1700 EE, rel nx (Gionet 2/12).
- 11835 HAITI R.S. 4VEH; 1215-1225 EE, nx, wx, rel pgm, f (Bernstein 2/27).
- 11835 SUDAN R. Omdurman; 1810 AA, OM w/AA songs, fair (Beal 2/13).
- 11835 URUGUAY R. El Espectador; 0928-0935 SS, many ads, ID at 0933, fading (? 2/16); 0900, no QRM from RTVA this year, good (Willis-AUST 2/21); 0000 SS, nx, ID by M (Granone 1/17); 0000 SS, football (Pyatt 2/21); 0125-0203\* SS, mx & ads, fair (Earhart 2/26).
- 11840 PORTUGAL RP; 0100-0200 PP, M tlk, //11875 (C.Sherman 2/22).
- 11840 USA VOA-Greenville; 1827 EE ID into FF pgm, nx (Granone 2/15).
- 11840NF VATICAN VR; \*1500 EE, IS into Indian mx theme and EE IDs, ex-11875 (Cosier-AUST 2/21).
- 11845 FRANCE RFI; 1705-1735 EE, "PCA"; fair, //11890 (poor) & 11930, 15200, 15210, 15305, 15315, 15425, & 17720 (all fair) (Zilmer 3/6). PCA Contest, ID in FF & EE at 1730, much QRM (Bogel 3/6).
- 11845 SEYCHELLES FEBA; 1605 EE, rel pgm, sermon, fair/good (Beal 2/13).
- 11845 SWEDEN RS; 2100 EE, nx to Africa, //9605 (Zilmer 3/6).
- 11850 NORWAY RN; 1815-1820 EE, annets, into NN, QRM de Soviet pulser, //11895, 15345 (Noonan 3/5).
- 11850 SWITZERLAND SBC; 0010 FF to S.Am., tlk on Mideast (Cohen 3/5).
- 11850 UNID 1410-1545 fade-out CC, rel pgm (Brown 3/5). FEBC-Philip.-ed.
- 11860 KOREA S. RK; 1350-1400\* EE, "Listeners Corner", good (Mayer 2/28).
- 11860NF NORWAY RN; 2200-2212 EE, //9645; good (Zilmer 3/6, Noonan 3/6).
- 11860 USSR RM; 0205 EE, nx, cmt on Vance's trip to the M.E., good (Thompson 2/26); 0300 "R.Kiev" pgm, EE to 0330 (Thompson 2/23).
- 11865.8 BRAZIL R. Cl. de Pernambuco; 0345-0400 PP, M w/seeming remote celebration singing, good (Krueger 2/12); 0420 PP, mx & rapid tlk (not RNB -ed.) (Hammer 2/27); 0400-0410 PP, sport (Earhart 2/27).

- 11870 SWITZERLAND SBC; 1545 EE, political tlks (Beal 2/24). 3/1
- 11875 PORTUGAL RP; 2357-0016 PP, IS, bells, NA (Earhart 2/24, Edelstein 2/21).
- 11877 BRAZIL R. Soc. da Bahia; 2341 PP, IDs, ads (Yajko 2/21).
- 11880 CANARY ISLANDS RTVE-Tenerive; 2130-2202 SS (Fedor 3/2, Gionet 2/19, Beal 2/10); 0100-0332 EE (Steas 2/26, Goldman 2/15, Godfrey 2/22).
- 11885 BRAZIL R. Maua/R. Ipanema; 0135-0315 PP, lt mx, ads for bank, coke, IDs as R. Ipanema...; fair/poor (Gaffin 3/1, Edelstein 2/10).
- 11905 ITALY RAI; \*2200-2225\* EE, morning svc to Japan (Goldman 2/19); 2320-2355 II, beautiful mx by orch, squeezed by R.RSA until 2320 (Earhart 2/22); 2337-2352 II, W ID, cl & jz mx, nx (Edelstein 3/1).
- 11925 BRAZIL R. Bandeirantes; 2330 PP, "Aqui São Paulo" (Breedon 2/22); (\*0035-0122+ TWR-Neth. Antilles QRMS - Bishop 3/3, Goldman 2/15); 0243-0323 PP, nx of São Paulo & S.Am (Earhart 2/6, Edelstein 2/16).
- 11930 PHILIPPINES VOA-Tinang/Poro; 2350-2355 EE (Cohen 2/20, Yajko 2/24).
- 11935 BRAZIL R. Clube Paranaense; 0900 PP, ants & mx, fair but fluttery and other stations are in the background (Willis-AUST 2/12).
- 11935 PORTUGAL RP; \*0100-0200 PP, MOR mx, tlk (Luce 3/8, McManus ?).
- 11935 SRI LANKA VOA-Colombo; 1430-1800\* EE (Bishop 2/28, Beal 2/24, Bogel 3/2). At 1800 switches over to Greenville -ed.
- 11938 CAMBODIA Phnom Penh, 1200 Cambodian, still heard here through early March, //6090, QRM from 11935 & 11940 (Willis-AUST Feb/March).
- 11940 ROMANIA R. Bucharest; 0140-0150 EE, poor sig, could be heard over VOA-Tangier (which is 11935? -ed) (McManus ?); \*1300-1315 EE, nx, sports (Filka 2/23); 1310 EE, steady symphonic mx until 1318 when nx of earthquake disaster of 3/4 at 1930 GMT (Miller-OH 3/5).
- 11940 SINGAPORE RS; 1545-1630 EE, nx & USA pops (Bogel 2/24, Grenier 2/27).
- 11940 USSR-Krasnoyarsk (Asian RSFSR); 0100 CC, IS, s/on, tlk by M&W, site per UHN #3 (Floriant 2/21). Thanks for showing site source -ed.
- 11945 MOROCCO VOA-Tangier 2009-2020 FF, African songs (McManus 2/25).
- 11945 SPAIN RTVE; 0030-0100+ SS, over Peking, //6085 etc. (Brown 2/18).
- 11945NF SWITZERLAND SBC; 0700 EE, ex-11950, good (Willis-AUST 3/2).
- 11950 USSR (Kazakh SSR) R. Alma Ata (UHN #3); 1155-1320 RR/Vern., violin mx, local tlk, heavy fading, fair (Edelstein 2/17, Mayer 2/17).
- 11955 ETHIOPIA ETLF; 2007-2028\* EE, rel pgm, fair w/QRM from ISRAEL on 11960 (Floriant 3/5, Beal 2/14, Mackay 2/13).
- 11955 MALAYSIA BBC W.S. via Tebrau; 1800-1830, nx & tlks, covering Swaziland, good (Beal 2/26).
- 11955 SRI LANKA (tent.) SIBC European Svc.; 1810-1945\* (Cohen 2/27, Stauner 3/5). What about BBC W.S., above? SIBC not listed here -ed.
- 11955 SWAZILAND TWR-Manzini; 1830 PP, rel mx, choir, fair (Beal 2/24).
- 11960 ISRAEL IBA; 0500-0515 EE, nx, //12045, 9815, 7412 (Zilmer 3/8); 0500 EE, to WCNA, poor, HCJB was on freq right up to 0500\* (Hauser 3/7); 2000 EE, IS, s/on, freqs given, nx, fair (Floriant 3/5).
- 11960v MALI Rf Nationale du Mali; 1635-1705 FF (tent.), M tlk/cmtry, poor (Dettmann 2/13); 1720-1800\* FF?, African mx and tlk (Rude 3/5).
- 11960 UNID 1850 AA, chanting & tlk, Koran readings? (Goldman 2/17).
- 11960 USSR RSP&P; 1330 EE, IS, then nx, fluttery (Brown 2/12).
- 11965 SPAIN RTVE; 2200 SS, traditional guitar mx (Beal 2/6).
- 11975 GERMANY E. RBI; 2030 EE to Africa, tlk, sports (Tannenwald 2/21).
- 11980 CHINA R. Peking; 0046-0050 EE, folk mx (McManus 2/13); 1248-1255\* SS, Chinese choral songs, W ann'r, fair (Earhart-PA 2/21).
- 11980 GERMANY E. RBI; 1915+ FF, FRG/GDR relations (Gionet 2/20).
- 11990 USSR-Vlad. (Asian RSFSR); 0040-0106 RR, "Mayak": UHN-3, mx w/flute, guitar, tent. ID, W & TC, pips, IS, poor level (Edelstein 2/16).
- 12020 USSR-Armavir (European RSFSR) RM Ext. Svc., 1st Pgm: UHN-2; 1245-1300 RR, M, W, mx, tlk, poor, //11870; 1300+ R.Atlantika pgm (Edelstein 2/17).
- 12030 USSR RM; \*1600 FF to Africa with nx (Gionet 2/27).
- 12030v VIETNAM VOV; 1250-1300 JJ, local mx, //15010v (not useable), poor (Ontake 2/27); 1300-1400 FF, nx, tlk, mx, //10040, good (C.Sherman 2/26); 1258\* FF, not EE at 1300!, poor signal (Goldman 2/18).
- 12045 ISRAEL IBA; 0500-0515 EE, nx, comment, //11960, 9815, 7412; poor (Zilmer 3/8, Poppin 3/6).
- 12050 USSR RM; 0042-0045 EE, U.S./Soviet relations tlk (McManus 2/13).
- 12050 PORTUGAL RP; 0313 EE, 6025 x 2, EE bc sked ann: quite listenable & propagation very good with strong //on 11935 (Hauser 3/7).
- 12077.5 ISRAEL IBA; 1330 Hebrew, HS, tlk, mx, //15545 (Zilmer 3/6); 1545-1615 Hebrew, Western mx, ads, nx by M, good (Fraser 1/29).
- 12085NF KUWAIT RK; \*1700-2000\* EE, ancs 12085 for Europe so is deliberate,

- new oob country, excellent here (Magne from 3/6).
- 12095 UK BBC W.S.; 1325-1330 "Letter from America", echo (McLaughlin 2/20).
- 12127a UK BBC; 1656 EE, SSB feeder w/sports, etc., exc. (Goldman 2/15).
- 12140 ROMANIA R. Espana Indepen.; 2015 SS, tlks by M&W, lt folk mx, heavy jamming, poor (Florian 3/5).
- 12175 ICELAND VOI/Reykjavik R.; 1200-1220 EE, test tape from 1200-1205, then lt orch mx & Icelandic talks by W; QRM from BBC feeder on same freq (Herkimer 2/28); 1420-1440+, orch mx (Whitacre 3/2).
- 13249.5 VENEZUELA R. Buzkadi; 2130 SS tlk, mx, good (Pyatt 2/26); 2138-2145 SS, tlk, ID "Voz de Resistance", fair, earlier s/off at 2030\* (Earhart 2/19); 2309-2310\* SS, ID, anthem (Walcutt 3/12).
- 14670 CANADA CHU; 1815 EE/FF, time announcements (Granone 1/9).
- 15000 ARGENTINA LOL; surprisingly for only 2kw overrode both WWV & WWVH 2345 (Lombard 2/27).
- 15012 VIETNAM VOV; 0154-0205 VV, folk songs, weak but clear (McManus 2/13).
- 15070 UK BBC W.S.-Davenry; 1600-1816, nx, tlks (Granone 2/15, Bryan 2/20).
- 15080 CHINA RP; 0006 CG, tlk by W (Yajko 2/22); 0023 Hakka to SEA, W tlk, 0025\*, then \*0030 Chaochou pgm //11515, fair (Brookwell 2/6).
- 15080 INDIA AIR G.O.S.; 1945\* EE to E. Africa, Indian mx, W talking, s/off, weak, very little understood (Mackay 2/13).
- 15084 IRAN NIRT; 1522 Farsi, tlk by M, upbeat mx, fair (Florian 2/19); 1905 Farsi, local mx, good (Beal 2/22); 2026 Farsi, W ancr, Iranian classical music (Bryan-CA 2/21).
- 15100 ISRAEL IBA; 1200 EE, nx, //11655, 15485, 15512, 17685 (Zilmer 3/6).
- 15100 USSR RM; 2310 EE "R. Vilnius" pgm, mailbag (Grenier 2/6); 2332-2350 RR, "R. Rodina" pgm, M&W ancrs, good (Goldman 2/22); \*0030-0100\* EE, "R. Kiev" pgm, story of Great October Socialist Revolu., to WCNA, good (Gaffin 3/7, Cohen 3/3).
- 15105NF FINLAND RF; 1430 EE, nx, ex-15110, appears permanent move for N.Am. xmsn; previously tested this freq, good (Walcutt 3/21).
- 15104.6 GRENADA RG; 2020-2138 EE, mx requests, ads (7 reporters).
- 15105 JAPAN NHK; 2200-0310 EE/JJ during 1<sup>st</sup> 1/2 of each hour (13 reports).
- 15115 ECUADOR HCJB; 1245-1300 EE, mailbag (Bernstein 2/27); 2045-2145 SS, religious pgm & Ecuadorian music (Granone 2/16, Alexander 2/26).
- 15120 NIGERIA VON; 1900-2040 EE, tlks on W. Africa, jazz mx, QRM from HCJB, fair (Richardson 2/23, Fedor 2/24, Beal 2/6).
- 15120 POLAND R. Warsaw; 1235 EE, HCJB QRM, ID at 1240 (Greenes 2/22).
- 15125 PORTUGAL RP; 2100\* IS & NA (Luce 2/27).
- 15130 NEW ZEALAND RNZ; 0100-0715\* EE, mx, cricket (Bryan 2/21, Macris 2/12).
- 15130 USA WYPR; ??? EE, rel pgm to Europe (Granone 2/13).
- 15135NF AUSTRIA ORF; 1900-2100 GG to S.Af., ex-15345, fair (Legge 3/10).
- 15140 USSR RM; 0010-0159 EE, SALT tlk, mx, f/fading (W.Hoffmann 2/28 - //15180 much stronger, suspect Asian site; Poppin 2/27).
- 15140 USA VOA-Bethany; 2015 EE, 35th anniversary contest (Alexander 2/26).
- 15145 BRAZIL R. Jornal do Comercio; 2200-2218 PP, sports event (Krueger 1/27); 2216, soccer game, loud long yells of "GOAL!" (Florian 2/27).
- 15150 CHILE L.V. Chile; 2035-2049+ EE to 2050 SS, many IDs (Richardson 1/30); 2315 SS, ID, tlk, fair (Imbert 2/16).
- 15150 UNID-site DW; 1930 EE, nx, pgm on Chad, to Africa (Noonan 3/6). I feel this would be in Germany W., and is also a NF -ed.
- 15155 FRANCE RFI; 1525-1540 FF, anmts & mx, fair (Dettmann 2/21).
- 15160 MEXICO XEWV; 1700-0300 SS (Legge 3/10, Beal 2/24).
- 15190 BRAZIL R. Inconfidencia; 2338 PP, sports, cmntry, ID (Yajko 2/24).
- 15190 CONGO RTVC; 1924-0059\* FF, EE, PP, Vern. (8 reporters).
- 15200 USSR-Kalatch (European RSPFR) RM; extended to 1600, S.Asian langs except 1430 RSP&P EE, //15295 Voronezh (Legge 3/11).
- 15205 USSR-Simferopol (Ukrainian SSR) RM; 1500 EE to Afr. (Legge 3/11).
- 15210 USSR-Alma Ata (Kazakh SSR) RM; 1300-1500 S.Asian langs (Legge ").
- 15240NF SWEDEN RS; 1830 EE, nx to Africa, //11780 (Zilmer 3/6).
- 15250NF ETHIOPIA ETIF; 1915-2000 FF to W.Afr., ex-15365, fair (Legge 3/5).
- 15250 ROMANIA R. Bucharest; 1300-1307 EE, day after the quake had a calm sum'y of EQ nx, then dirgeful mx; this xmsn & //11940, 9690 is propagationally more favorable than evening one to N.Am. (Hauser 3/5).
- 15260NF FINLAND RF; 1330 EE to Far East, //15110 (Zilmer 3/6). Cf. 15105 -ed 1923-1930 EE, letterbox (Noonan 3/6).
- 15270 TAIWAN VOFC; 2205-2305 KK?, Westernized oriental mx, lang. change at 2230, //17820 (W.Hoffmann 2/14); 2300-2330\*, fair (Zilmer 2/16).
- 15335.5 COLUMBIA R. Nao.; 1210-1235 SS, LSB, time given in GMT so likely intended for multinational audience; mode - even if accidental - suggests this is a Fixed Svc. xmtr conscripted for bc use (Magne);

- 1800-2100 SS, since 2/16, //9654.5, usual cl mx, fair (Cress 3/5);  
2140-2210, tlks, cl mx, 2200 TC, mx of Haydn (Craig 2/21).
- 15345 GREECE VOG; 1225 EE/Greek, GR mx pgm, good (Greenes 2/13).
- 15345 NETH. ANTILLES TWR-Bonaire; \*2226 PP, IS, nx, mx, good (Brown 2/23).
- 15385NF ANTIGUA DW; 2130-0105 PP/SS, ex-9590, QRM R. Mexico (Legge 3/7).
- 15400 VENEZUELA R. Nacional; 2200 SS/EE, international & S.Am. mx, weak (Cosier 3/2, Beal 2/11).
- 15410NF ANTIGUA DW; 2200-0150 GG, ex-9680; replaces Kigali on this freq, Kigali moved to 9700; good (Legge 3/7).
- 15435 TANZANIA RT; 1800-2015 EE/lang, poor (5 reporters). Difficult -ed.
- 15520 PAKISTAN RP; 1130-1325 ?-lang/Urdu, lcl mx (Sherman 3/4, Zilmer 3/6).
- 15545NF ISRAEL IBA; 1130-1800 Hebrew HS, fair, scheduled \*0400-2000\* (Magne 3/6 on); 1315 Hebrew, //12077 (Zilmer 3/6).
- 15583 FRANCE Cf. LR-D-4, 3/77: target Cyprus, not Malta (Magne). Tnx -ed.
- 17685 ISRAEL IBA; 1225 EE to 1230 FF, //35100 etc., poor (Zilmer 3/6).
- 17705 USA VOA-Bethany; 1915-1920 EE, nx abt Uganda plenty (Dubrick 2/28).
- 17720 TAIWAN VOGC; 2215 EE, W, ID, Chinese-style mx (Bryan 3/6).
- 17720 USSR RM; 2314-2335 EE, Moscow Mailbag, Soviet nx, probably from Petropavlovsk (Florian 2/20, Goldman 2/17, Cohen 3/5).
- 17725 PORTUGAL? R. Free Europe; 1915 Bulgarian, no jamming (Bryan 3/6).
- 17730 USA WYPR; 1500-1515+ EE, rel pgm to S.Am. Sundays only (Brown 2/13).
- 17740 BELGIUM ORU; 1620 Dutch, jazz guitar/piano, good (Beal 2/13).
- 11750 CUBA RHC; 1910-1915 SS (Dubrick 2/28); 2115 EE, lbx (Parkey 2/20).
- 11765 USSR RM; 1500-1525 EE, Afr. Svc., Tula site?; cmntry on racists' ploys (Imbert 2/20, Florian 2/19, Georg 2/28).
- 11790 PHILIPPINES VOA-Tinang; 0139 EE, pops (Bryan 2/21).
- 11795 AUSTRALIA RA; 0100-0300 EE, info, nx, mx, //15320 (5 reporters).
- 17795 FRANCE RPI; 1920-1930 FF, M tlk (Dubrick 2/28).
- 17800 PHILIPPINES VOA-Tinang; 0130 Hindi, EE ID (Bryan 2/21).
- 17805 PORTUGAL? R. Free Europe; 1925 Polish, discussion (Bryan 3/6).
- 17810 NETH. ANTILLES RN-Bonaire; 1703-1708 AA, 1928 FF (Dettmann 2/12-13).
- 17810 PHILIPPINES FEBC; 0000-0030 EE, rel pgming, good, //15235 (W.Hoffmann 2/28, Grenier 3/7, Bryan 2/21, Granone 2/8).
- 17815NF ISRAEL IBA; 1200 EE, nx, //17685, 1548, 15100, 11655 (Zilmer 3/6).
- 17815 ITALY RAI; 1703-1714 IL, M, nx, tent. ID (Edelstein 2/12).
- 17820 CANADA RCI; 2000 EE, "Weekend Magazine", excellent (Luce 2/27).
- 17820NF USSR-Tbilisi (Georgian SSR) RM; 1600 FF to Afr., RCI QRM (Legge 3/9).
- 17825NF ROMANIA R.Bucharest, 1200-1225 EE to Asia, also annt'd 15345, 11830, good (Legge 3/7).
- 17830 GREECE VOG; 1219-1230 EE, nx, into FF at 1230 (Richardson 1/25); 1515-1525 EE, ten minutes of EE nx during Greek pgm, //11730 (Zilmer 2/27); 1816 EE, nx by M, jamming QRM, poor (???? 3/6).
- 17830 NETH. ANTILLES RN-Bonaire; \*2000 FF to N.W.Afr., good (Brown 3/5).
- 17835 PORTUGAL? R. Free Europe; 1935 Czech, M tlk, no jam (Bryan 3/6).
- 17840 ASCENSION IS. BBC W.S.; \*1500 EE, IS, ID w/site (Beal 2/9).
- 17855 LIBERIA VOA-Monrovia; 1900 FF, rock mx (Bryan 2/27).
- 17870 LIBERIA VOA-Monrovia; 1600-2153 EE to Afr. (Brown 2/17, Bryan 2/21).
- 17880 JAPAN NHK; \*0100-0125 EE/JJ to N.Am. (Grenier 3/7, W.Hoffmann 2/25).
- 17880 PORTUGAL RP; \*1830-1940 PP (Beal 2/18, Bryan 3/6). /Bryan 2/21.
- 19440 USSR R.S. Atlantika; 1323 RR, 9720 x 2; site? (Hauser 3/5).
- 21350 PITCAIRN IS. VR6TC, Tom Christian, 2230-0100 EE, USB, "Scheduled every Tuesday at this time" (Wilson 2/22). Not bc - but interesting!
- 21465 EGYPT R.Cairo; 1417 unid. lang, M&W, fading (Mackay 2/6).
- 21470 UK BBC W.S.; 1314-1330\*, upcoming Pakistan election (Mackay 3/6).
- 21485 USA VOA-Bethany; 1700 EE, "African Panorama" (Bishop 2/28).
- 21540 GERMANY E. RBI; 1317 GG, mx, M&W tlk, weak (Mackay 3/6); 1400 EE, nx, comment, //17880 (fair); poor (Zilmer 3/6).
- 21555 ALGERIA RTVA; 1355 AA, freq sked read, strong stn (Mackay 2/20).
- 21560 ITALY RAI; 1700-1730 II to Africa, good signal (Ferrell 2/21).
- 21590 SAUDI ARABIA BSKSA; 1309 AA, mx, ID (Mackay 3/6).
- 21625 ISRAEL IBA; 1400+ Yiddish, nx by W, mx into RR at 1430, good (Zilmer 3/6, Mackay 3/6).
- 21650 MALTA DW; 1317 Indo anmt, good signal (Hauser 3/5).
- 21690 SWEDEN RS; 1230-1258\* EE, nx, tlk w/Stockholm city planner, //11735, 15315 (Mackay 3/6, Zilmer 3/6).
- 21720 PORTUGAL? R. Free Europe; 1719 Czech (Bryan 3/6).
- 21730 NORWAY RN; 1600 EE, "Norway this Week", //17800, 15175, poor (Zilmer 3/6).





# FRIENDX CREDITS

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One man short this month. Thank you to 99 reporters who sent in this month.

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**WANTED:** Crystal for 60 mb for Drake SW4A. Tony Capobianco, Box 317, Glenwood Landing, NY 11547  
Out of space again. There were many reports that reached me after the deadline. Mail early. 73's, GREG.....

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