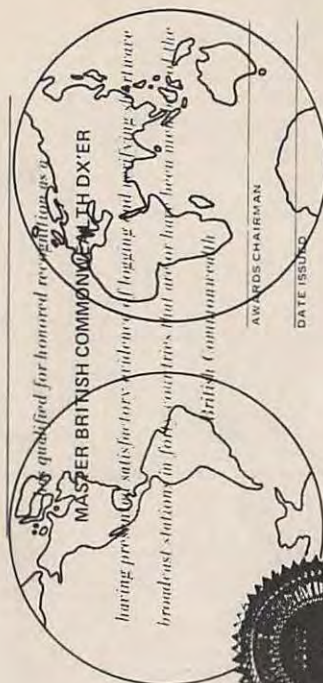


# North American Shortwave Association

*This is to Certify That*



AWARDS CHAIRMAN

DATE ISSUED

SERIAL NO.

*"Unity and Friendship"*



# f r e n d s D X

# N<sup>AS</sup> W A

North American SW Association

AUGUST - 1976

P.O. Box 13  
Liberty IN 47353

# Loudenboomer



## report

I was browsing at the news stand the other day and picked up a copy of that new magazine called "Electronics Hobbyist."

This, gang, is a super publication! And for those of you who haven't found this fund of information at your drugstore or supermarket yet, here's a brief summary of Vol. I, Number 1.

First there's a great column called "Ask Horatio - He May Know" which provides answers to questions from readers. You know, like "what's the best receiver?..to which Horatio replies: "Paul Warfield!" Or, "what's the difference between male and female phono jacks?" and Horatio says "ask your father!" And a guy who heard a station broadcasting in English on about 10MHz at 0300 with an announcement "you are listening to the.....service of....." The reader thinks the word was "Trinidad" so Horatio answers "Sorry, Trinidad uses only 3.275!"

Once you've finished with Horatio you can check new electronics products out on the market in the feature "What's Up?" and discover there's a new garage door opener that not only performs that basic duty but turns on the lights, starts the coffee and turns down your bed.

There's also a new lapel-worn automatic telephone answering unit, an improved plastic CB handle and some other gadget I can't make out because the girl model is standing in the way. Maybe it's a model girl.

Then we get into the real meat of the mag. The articles! And you'll find several that will be invaluable DXing aids, like "DXing Africa's Fulani People", "A Fresh Look at the Radio Swan/Radio Americas/Radio Swan/Radio Libertad/WCPR Mystery and the Lee Harvey Oswald/CIA-NSA-FBI-FCC-FHA-AEC-MIS-Food Stamp Connection.

Someone also worked up a real neat chart showing all the times, frequencies and producers of English programs beamed to North American audiences by stations in The Trucial States.

Of course there are a number of more technical articles including one called "Turning Your CB Unit Into a Pirate Broadcasting Station", "An Easy Timer Unit For Your Bandspread", "Radio-Controlled Flying Bombs", and "The Truth About ICs."

At this point you'll have to move to a table, placing one elbow on each side of the magazine. Otherwise, it will keep springing shut thanks to the 27 reply cards inserted into the binding.

Other articles include turning your TV picture tube into an electronic, three-dimensional chess board, a review of the new crystal-controlled, self-energizing Molotov Cocktail longwire. The last section is devoted to a simplified, step-by-step course in building blocks.

Finally, come the classifieds, through which you can take advantage of the opportunity to earn \$500 a month addressing envelopes, meet a girl from Idaho and learn to harness your brainwaves - using the power derived therefrom to drive your golf cart.

All-in-all, EH is a super magazine! If it deals with anything using tubes or transistors or ICs, it'll be in EH sooner or later. I'm so enthused I wrote to the editor complimenting him on the publication. Naturally he offered me a regular monthly column. Naturally I accepted. And I'm also authorized to act as a subscription agent. So instead of searching in vain for EH next to "Modern Gothic Romance" in your favorite supermarket, you can subscribe through good ol' CL. Of course, I have to add a small handling charge, but I'm sure you can understand the need for that, eh?

73,

Charlie

AUGUST BALBI 1890 - 1976: We were very sorry to learn in the ASWLC bulletin of the recent death of long time NASWA associate August Balbi. Mr. Balbi died June 17, 1976 after suffering a stroke. He had been active in DXing since the early 1920's and was a past President of ASWLC. He was named ANARC's Man of the Year in 1972. Those who wish to send cards/notes can send them to his brother, Ronald Balbi, 3325 Larga Avenue, Lo. Angeles, CA 90039.

## NASWA Associate Directory

A complete directory of almost 1,200 NASWA associates has been published and is now available. Past indications are that this should be of interest to many, so we are glad that we have finally been able to make it available. If our efforts in this area receive sufficient support, we will try to publish a new one annually.

This directory is a 28 page booklet, 4 $\frac{1}{4}$ " X 7", offset printed, and lists all North American associates alphabetically with a separate listing for overseas associates and is current as of July 1, 1976. U.S. users of this directory can also easily locate other DXers in their area by scanning zip codes which are listed in a column running down the page.

Unfortunately, the cost of publishing and mailing this directory requires us to make a slight charge for it. U.S. associates may obtain a copy for .50¢ in coin, check, money order or mint stamps. Canadian associates may send a money order or Canadian coins (we can exchange them O.K.) but stamps are not acceptable. Overseas associates should send 5 IRC's for airmail or 2 IRC's for surface. All orders to HQ please.

DXING ACCORDING TO NASWA CASSETTE: A tape version of the popular DXing hand book, "DXing According to NASWA", is now available. NASWA associate James A. Conrad, Waterloo, Iowa, has taken Ed Shaw's book and edited it into a two hour cassette. Jim is a radio announcer by profession and he has done an excellent job in adapting the book onto tape. This would be an ideal way to introduce the world of SWL to any person with sight disabilities. Anyone wanting a copy of this tape for a blind friend, or other purpose, can obtain one from HQ for \$4.00 each postpaid. For each tape sold, we will donate \$1.00 to the HAP Program.

DX HOTLINE EDITOR CHANGE: We are sorry to have to announce that Ralph W. Perry, DX Hotline editor for the past year, is giving up that section effective with this issue. Publication of DX Hotline will not be interrupted since John J. Moritz, Jr., 4145 New Road, Youngstown, OH 44515 will be the new editor and will be doing the mid August issue. All items for DXH should be sent to John for the mid August issue as well as future issues. We appreciate the excellent job Ralph has done, and we are glad that John Moritz was available on such short notice.

LARGER PRINTING SIZE: In the July issue, we called attention to a slightly larger printing size in that issue and ask for comments. A good number of people did take time to comment, which we appreciate.

Apparently, the larger printing is preferred by most, at least with those who commented. Based on this sampling, we have elected to stay with the larger printing in the future.

DSWCI TROPICAL BAND SURVEY (4TH EDITION): We are advised by The Danish Shortwave Clubs International that they have just published their 4th edition of their popular TROPICAL BANDS SURVEY consisting of 34 pages covering all known active broadcasting stations in the frequency range from 2000 to 5900 kHz. They say their survey is the only publication in the world which also contains their actual transmission times. DXers in 28 countries on 6 continents and official monitoring stations have contributed to this fourth edition. Is off-set printed with double spacing. It is available from DSWCI, P.O. Box 50, DK 2620 Albertslund, Denmark for 5 IRC's surface mail, or 8 IRC's by airmail.

INTERNATIONAL LISTENER????? Can we assume that "International Listener", the new SWL magazine has folded after only four issues? Our last issue was received was for April, and an inquiry to the Publisher has failed to result in any information on the present status of this publication.

FRENDX FRONT COVER COMPETITION: In the past two issues of FRENDX, we have mentioned a front cover design competition. Entries will be accepted from now until December 31, 1976. Here are the basic requirements.

The name of the publication, FRENDX, along with the name "North American Short Wave Association", address, and month of publication must appear. The use of logos or other suggested designs is up to the entrant. The design should be one that could be used each month with provision for an open area for use of photos, etc., to allow for some variation.

All entries must be in the form of finished art work and should be 4-3/4" X 8", or in direct proportion thereof if larger layouts are submitted.

Individual questions on this contest should be directed to HQ. The winner will be determined by a panel of judges yet to be selected, and will receive a years extension to his/her FRENDX subscription, and in addition, a free copy of WRTVH-1977. We hope all those with creative talents will want to participate.

HARRY VAN GELDER TO RETIRE: Harry Van Gelder, of Radio Nederland's DX Juke Box, will be retiring in September, and HAP plans to honor him during his last HAP talk on September 16. Plans are to have Ian McFarland make a trans-Atlantic phone call to Dick Speakman, at which time Ian will make a presentation to Harry in HAPs behalf, which presentation will be taped and played on September 16th. HAP will present Harry with a suitably inscribed plaque from HAP and CHAP and members of HICC. ( via HAPINews, June, 1976).



Regards & 73's

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

HELPING HAND: Summer Special! Gilfer Associates, Inc., P.O. Box 239, Park Ridge, NJ 07656 advise they have several used Barlow Wadley XCR-30's in stock which they have re-conditioned and re-aligned. Price is \$200.00 plus UPS delivery charges. For anyone who wants a portable for the remainder of the summer, these would be a very good buy. For additional information, contact Gilfer Associates, Inc.

HELPING HAND: For sale. Heath SW-717 receiver (540 kHz - 30 mHz), in very good condition. Price is \$40.00. Contact Robert D. Stees, RD#2, Box 308, Halifax, PA 17032, or call 717/896-8070 anytime.

HELPING HAND: Wanted. Keith Russell, 1603 S. Cottage Grove, Urbana, IL 61801, has lost his manual for his Hallicrafters SX-100(Mark II), and would be happy to reimburse anyone who could make him a copy.

HELPING HAND: For sale. Zenith Transoceanic portable receiver. Clean, but needs alignment. \$60.00.....Gilfer PM II Preselector, never used. \$35.00...BC 348, made by RCA, mint condition, with AC supply in cabinet, unmodified. \$40.00 plus shipping.....HQ-180 e/w clock, noise blanker, manual, and Hammarlund speaker, like new. \$300.00, local pick-up only. Contact Tim O'Hare, 910 N.E. 114th, Seattle, WA 98125.

TUCH'S TRIVIA: KDKA, Pittsburgh, PA was the first broadcast station heard by many old timers. It was licensed by The Department of Commerce, October 27, 1920.

TUCH'S TRIVIA: There are about 300,000 radio amateurs in the world today.

# Shortwave Center



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

August 1976

Welcome to another month of Shortwave Center. Shortwave Center contains articles of interest to SWLs and shortwave broadcast DXers that were submitted by you, the readers of FRENEX. You are the source of Shortwave Center material and the amount and quality of items appearing here depend on you. I hope that you appreciate the fact that this editor, in common with all FRENEX editors, has a limited amount of time available to prepare SWC each month. I would appreciate it very much if you could edit and prepare the items you submit so that they are essentially ready for final typing. I will, of course, take less well prepared articles, but it may be an extra month or two before they appear in print. So do us both a favor, a well prepared, interesting article has a tendency to be put into SWC immediately.

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## WWV Broadcasts

The following letter was received from Robert B. Doeker, Chief of the Space Environment Services Center, NOAA, Boulder, CO 80302 on 24 June, 1976.

Dear Sir:

I hate to respond with a form letter; but the number of complaints, inquiries, etc. regarding termination of the Geophysical Alert Broadcasts on WWV/WWVH necessitates the generalized response.

The reason for termination of the broadcasts is money. Rising costs of everything with no increase in funds require ever increasingly efficient management and a good system of priorities.

We have now reached the level where WWV broadcasts are not as crucial to continued operation of the Forecast Center as are receipt of incoming data and availability of forecasters to use these data.

I agree we are not discussing a large amount of dollars; but they are dollars we do not have. If the data in the Weekly does not satisfy your needs; because it is not timely, you could phone us at your expense (303-499-1000 x3171) and the duty forecaster will be happy to provide the data he has.

Sorry!

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
ENVIRONMENTAL RESEARCH LABORATORIES  
Boulder, Colorado 80302

## S-Meters

S-METERS CAN'T BE TRUSTED

by Morgan Monroe, Sandpoint, ID

Many SWLs view their receiver S-meters as accurate signal-strength indicators. Such faith is misplaced; your S-meter rarely tells you the truth.

At best, it offers indirect, relative indication of the tuned station's carrier level - as measured against flexible standards and influenced by varying conditions inside and outside the receiver. At worst, an S-meter is only a peak-tuning indicator.

No matter what kind of receiver you use or how much it cost, your chances of consistently obtaining accurate S-meter readings are very slim. This does not mean, however, that either the receiver or meter is at fault. Both may be of high quality, but you will still be misled by the meter's readings most of the time.

To understand why this is true, it is necessary to know what an S-meter is, how it works, what it measures, and what forces influence its indications. Regrettably, few SWLs bother to learn any of these.

An S-meter, carrier-level indicator, S-unit meter or whatever - the instrument has a number of names - is a milliammeter, a device for measuring and indicating small electrical currents. A milliampere is 1/1000 of an ampere.

Receiver manufacturers usually install S-meters in the DC plate lead of an automatic-gain-controlled RF or IF stage. Since plate current decreases as AGC voltage rises with a strong incoming signal, the plate current fluctuation is used as a relative measure of received signal strength. Thus S-meters are constructed in reverse to indicate increased readings as signal strength rises.

Obviously, such readings cannot be direct measures of signal strength, as many receiver owners incorrectly assume. An even the plate current measurement that the meter does indicate appears on a scale that reads backwards.

Unless such indications are based on some calibration standard, a condition found only in high-quality receivers, they mean little to the receiver owner. And unless the meter movement and scale are designed and constructed to work with the calibration standard, the S-meter index pointer is just something that wiggles as you tune the SW bands.

Some high-quality receivers are equipped with calibrated S-meters. This means that the manufacturer adjusts meters installed in his products in such a manner that a given signal strength, as measured in microvolts at the receiver input yields, for example, an S9 meter reading. But even this refinement does not assure continuing accuracy.

S-meters are influenced by a number of things and even the factory-calibrated kind can not be trusted unless checked and re-calibrated frequently. Better receivers are equipped with internal controls for this purpose but many owners do not understand or use them. And few SWLs have access to test equipment necessary for accurate re-calibration.

This together with dust and dirt, AC line voltage fluctuations, static charges and other forces assures that S-meters supply inaccurate readings most of the time. Which is why they rarely tell the truth.

The effects of heat, humidity, and dust inside receivers, for example, gradually alters the values of resistors, of which there are several in most S-meter circuits. Fluctuations in line voltage - an all-too-common condition in many communities - cause substantial S-meter errors in AC-powered receivers. And a sure way to throw an S-meter into erratic operation is to rub a polishing cloth briskly over its face, as some receiver owners often mistakenly do when cleaning their equipment.

So do not trust your S-meter to give you anything more than a rough approximation of signal strength as compared with the carrier levels of other stations heard during that particular tuning period. If you do not tune by ear, as you should learn to do, an S-meter may also serve as a peak-tuning indicator.

Experienced ham operators long have referred to S-meter readings as "S-timates" because that is exactly what most are. Viewing them as anything more is a certain route to false receiver performance evaluation and misleading signal reports.

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## TVI

LESSON LEARNED by George J. Poppin, San Francisco CA

Recently I started to receive severe audio QRM from TV channel 2 (KTUV) on 9585 kHz, one of several frequencies which I monitor for Radio RSA. After attaching a 52 ohm TV 1000 W LP Low Pass filter between the antenna tuner and my radio set, the QRM was eliminated and reception was vastly improved. Excessive atmospheric and other noises were greatly reduced and DX stations come in much louder and clearer. For example, Radio Santa Fe usually comes in with "fours and fives" as do RNZ, NBC P/NG, and LV du Zaire. (Thanks to Mr. Kane (FCC-San Francisco) and Robert Ways of Channel 2.)

## MEASURING HETERODYNES WITH THE BARLOW WADLEY RECEIVER

by David L. Walcutt, Carbondale IL

**XCR-30**

The Barlow Wadley XCR-30 is an extremely stable receiver, and a considerably higher degree of frequency readout accuracy can be attained than the five kilohertz provided for. With a calibrated vernier dial it is possible to measure heterodynes within 200 hertz. The calibration procedure to be described depends on the unique circuitry of this receiver; however, the same suggestions probably apply to the new Drake SSR-1, which is electronically similar.

The vernier dial is installed in place of the ordinary knob on the CLARIFY shaft. A low cost vernier is available from Lafayette stores. It is not necessary to drill or in any way deface the front panel of the receiver. I mounted the vernier by passing screws through the holes in the vernier intended for the purpose using several layers of "Elmer's Glue-All" to rigidly affix the vernier dial to the front of the receiver.

In installing the vernier, first mount it on the CLARIFY shaft and then rotate it so that it works through its scale of 0 - 100 without going beyond the range of the Clarify control. By properly adjusting the position of the vernier it should be possible to tune the entire range of the CLARIFY control. The zero end of the vernier scale should correspond to but not exceed the high-frequency end of the CLARIFY control's working range. Increasing the vernier setting should cause the receiver frequency to decrease.

The instruction manual to the BW describes the use of the BFO as a tuning aid (i.e., with the SSB switch to the upper, or "t", position). The procedure in measuring the frequency of an off-channel station is to set the vernier to zero, tune to a zero-beat on the bfo to the higher of the two stations (using the KHZ SET), then adjust the vernier to obtain a zero-beat on the lower of the two stations. The number which the vernier reads then represents the frequency difference, and it is only necessary to add or subtract, depending on whether the split channel station is above or below.

It is possible to coarsely calibrate the vernier by using known split-channel stations. Radio Reloj, 6006, can be used to measure heterodynes of both 1000 and 4000 hertz: 6006/6005 and 6010/6006.

Calibration of the vernier is the next step; the procedure to be described works only with receivers having BW circuitry. A 100 khz. crystal calibrator is needed. The frequency must be raised to 100.02.

Tune in the BBC on 6005 and zero-beat with the bfo. It's a good idea to leave the bfo turned on a few minutes in advance. Having tuned to 6005, re-set the MHZ SET control so that the frequency is 25005. Next adjust the frequency of the crystal calibrator so that a zero-beat is obtained. Be careful to raise the calibrator frequency so that a heterodyne is heard. The 250th harmonic of the calibrator must be at 25005 rather than the normal 25000.

The retuned crystal calibrator now produces signals which produce precise heterodynes in relation to the receiver's internal 1000 khz. harmonic oscillator. These heterodynes increase by 200 hertz increments every megahertz; thus, 1000.2/1000.0; 2000.4/2000.0; 3000.6/3000.0; 4000.8/4000.0; and so forth. It is worth noting that heterodynes of exactly 1000, 2000, 3000, 4000, and 5000 hertz are produced at 5, 10, 15, 20, and 25 mhz.

With these precisely known signals the vernier can be precisely calibrated. To determine an unknown difference frequency is it only necessary to compare the vernier reading with the data obtained with the retuned calibrator. The data can be graphed or recorded in chart form. The figures obtained at any reading should be made by setting the vernier at zero and then adjusting for zero-beat on the higher of

the two frequencies and then lowering the frequency by adjusting the vernier so that a second zero-beat note is obtained.

With this degree of precision you will find it possible to measure frequencies quite precisely. On the other hand, you will soon discover one problem: battery voltage effects adjustment of the vernier. Unless you want to constantly change batteries, or recalibrate the vernier, it is a very good idea to install some sort of AC power supply. One possibility is the Heathkit IP-18. This sells for \$25., however, and one alternative would be to build one yourself from diagrams in one of the mass circulation electronic publications.

Another use for the vernier is as a calibration correction control. It is possible to ensure an exact visual readout on any frequency by establishing a numerical correction figure. Any errors in the KHZ SET will be the same irregardless of the MHZ SET reading. Thus, it would be an easy matter to tell whether the receiver was tuned to 12725, 12730, or 12735 by consulting a chart indicating corrections for each KHZ SET frequency. These figures can be readily obtained by tuning each channel in the MW broadcast band and noting the vernier setting that corresponds to the exact mechanical readout. It goes without saying that the normal calibration knob (below the S-meter) should never be touched when the CLARIFY control is being used in this way.

## Pinyin

WHAT IS "WULUMQI" AND DOES IT COME WITH EGG ROLLS?

by Jim Davis, Travis AFB, CA

A Pinyin pronunciation guide for tight-tongued Americans

The People's Republic of China has standardized the spelling of Standard Chinese names in Latin letters. These new spellings are used in WRTH 76. This guide is greatly simplified and is only intended to give a general idea of how the Pinyin spelling (as in the WRTH) relates to the actual sound of the station names. It is not totally accurate, but just gives English-speakers something they can pronounce easily and still be able to recognize it when a true Chinese-speaker says it. This guide also completely ignores tone.

<u>Pinyin Letter</u>	<u>English Equivalent</u>	<u>Pinyin Letter</u>	<u>English Equivalent</u>
a	ah (the "a" in father)	ng	ng (the "ng" in reading)
b	p	o	oh (the "oa" in boat)
c	ts	p	p
ch	ch	q	ch
d	t	r	zh (the "z" in azure)
e	uh (the "o" in other)	s	s
f	f	sh	sh
g	k	t	t
h	h	u	oo (the "oo" in boot)
i	ee (the "ea" in beat)	ü	like the German "ü" or French "u", no English equivalent
j	ch	w	w
k	k	x	sh
l	l	y	y
m	m	z	ts
n	n	zh	ch

"Now, how do I use all these things?" you ask. Okay, using the name Wulumqi as an example:

w u l u m q i  
w oo l oo m ch ee

So, "Wulumqi" in Pinyin becomes "Wooloomchee" in English transliteration. (Sounds like a lake in Florida - - Okee Wooloomchee.)

One more final note: "u" following a "j", "q", or "x" in Pinyin is pronounced like "ü". Pinyin "e" following "i" or "u" is pronounced like the "eh" in "get".

Hope to have helped someone, and if you have any questions, ask an expert, not me (hi).

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## Compatible SSB

### FREQUENCY SPECTRUM CONSERVATION

by Arthur Thompson, Station Engineer WYFR  
via Larry Magne, Philadelphia PA

Larry Magne sent the following. It is a draft version of an interesting proposal for conserving radio frequency spectrum. It was prepared for possible suggestion at the 1979 World Radio Conference.

Every natural resource has finite limits, and therefore must be used with care and understanding. The high frequency radio spectrum is a resource which is likewise limited, and therefore subject to the most stringent conservation efforts. Our administration has supported spectrum conservation for a number of years in other services such as Maritime and Mobile. Frequency spectrum allocated for international broadcast use is even more limited, being only a fraction of the spectrum available to all services. In the design and operation of equipment for use by broadcasters, an engineer tries to obtain the most efficient operation of the equipment possible. An increase of a few percent in the efficiency of a high-power transmitter can sell that unit compared to a competitor's unit. No modern broadcaster would consider using a Class B linear amplifier for high power because of its inefficiency. Yet our same broadcasters continue to use a limited resource, our frequency spectrum, less efficiently than is possible. We use almost twice as much of the spectrum as necessary to provide a service to our listeners. This same service can be provided in about half the frequency spectrum with no difference in the quality of the broadcast signals.

### Emission Compatible with Present Equipment

Where is there room for improvement? How can we do better by doing less? What is the system being proposed? We broadcasters must be able to provide our service so that it can easily be processed and demodulated at the receiver. Envelope detection, otherwise referred to as diode detection, is the standard method of demodulation of Amplitude Modulated (AM) signals. Continuity of service would require that the same equipment be capable of processing any new signal generated to conserve spectrum. It would also be required that any change in the emission be accomplished at a minimum, reasonable, cost to the broadcasters. In other words, the proposed modulation technique must be compatible.

Various international organizations and engineering groups have been working on forms of Compatible Single Sideband, A 3 H, in an effort to conserve spectrum. Various techniques have been developed which produce good quality broadcasts. One system, not necessarily the best, has been type-accepted by the FCC for use in Coastal Harbor Service by the Florida Telephone and Telegraph Company. This technique, as well as any of the others so far developed, produces one sideband, along with a carrier signal containing a small amount of frequency modulation (FM) to cancel the opposite sideband. The net result is a signal containing a full carrier plus one sideband, all contained within the required bandwidth.

### Standard Emission Specification

As applied to international broadcasting, it would be possible to establish a standard emission specification called broadcast quality Compatible Single Sideband. (How it is derived is left to the discretion of the local administration. Likewise the local administration could be allowed a degree of freedom to develop their own system, rather than using a system developed for another administration.) The standard spectrum specification could be of the following order: Audio limited to six kilohertz: One hundred percent negative modulation maximum (positive percentage determined by local administration). Any emission removed from the carrier frequency on the upper sideband by between 7.4 kHz and 10 kHz, inclusive, shall be attenuated by at least 25 dB. Any emission removed from the carrier on the lower sideband by between 1 kHz and 10 kHz, inclusive, shall be attenuated by at least 25 dB. Any emission between 10 and 25 kHz shall be attenuated by at least 35 dB, and any emission removed from the carrier by more than 25 kHz shall be attenuated by at least 80 dB.

### Channel Spacing

One interesting development of the above specification is that carriers could be placed at intervals of not less than 7.5 kHz. Since each broadcaster would be operating on the same sideband of his carrier, there is no overlapping of sideband intelligence. With all channels spaced at 7.5 kHz intervals, we in effect increase the number of channels available by an additional 33%. For example, in the present 25 m band, the implementation of this system would increase the minimum uncongested operation from 26 channels to 35.

### Five KiloHertz Channel Separation

The valid observation is that channel spacing is presently 5 kHz, or 53 channels in the 25 m band. The 5 kHz separation is unsuitable for services to the same or adjacent target zones due to the severe sideband interference and the heterodyne of carrier signals. Any broadcaster using that intermediate channel not only defeats his own programming purpose, because of the interference from the two adjacent broadcasters, but also causes interference to at least one sideband of each adjacent operation. This renders three of fiftythree channels useless. Five kilohertz channel separation is usable only when alternate channels are not used. Another factor in the five kilohertz channel spacing in use presently is the inefficient use of the spectrum when one broadcaster is 15 kHz away from his adjacent broadcaster. The administration looking for a broadcast channel has to move 5 kHz away from one or the other broadcaster, again causing himself and others interference.

Anyone who has lived in Latin America, where the 5 kHz separation is used for AM mediumwave broadcast, knows that the system, well intentioned, designed, and specified, does not work in practice because there are too many variable factors to consider.

### Present Channel Spacing - 25 Metreband Example

Excluding the band edges, there is 265 kHz of band available. With a well managed, coordinated spacing of 10 kHz, the maximum capacity of the 25 metre band is 26 channels. For each uncoordinated 15 kHz spacing, one half channel is eliminated.

### Proposed Channel Spacing - Example

The same 25 metre band, with A 3 H emission on the high sideband (for example) would have the first channel at 11,700 kHz. The second channel would be at 11,707.5 kHz, and the third would be at 11,715 kHz. The highest channel, still getting everything within the 11,975 kHz band edge would be channel 36 on a frequency of 11,962.5 kHz.

### Proposed 25 Metreband - Example

The proposed 25 metre band is 11,500 kHz to 12,000 kHz, or 49 well managed, coordinated channels under present spacing, assuming no 15 kHz gaps.

With the proposed use of A3H emission, and a channel spacing of not less than 7.5 kHz, we would have the first channel at 11,500 kHz and channel 67 at 11,995 kHz. This is a total effective increase of more than 250% over the present 25 metre band.

Frequency managers would be able to plan and implement schedules based more on propagation and technical reasons, rather than space available conditions. Adjacent channel interference, and compromises caused by it in the present system would be reduced greatly due to inherent improvement in the protection ratio afforded each broadcaster.

The standard protection ratio for 10 kHz carrier separation is about 5 to 8 dB. Problems arise when the carrier separation is 5 kHz where the required protection ratio is in the order of 45 dB. If the carrier frequencies were spaced in the order of 7.5 kHz, the protection ratio (with present double sideband emission) would be about 25 dB, or 20 dB less than with 5 kHz spacing. There is an implication here that many broadcasters being required to operate with a 5 kHz separation now, producing adjacent channel interference, would be able to operate with 20 dB less interference in the proposed system.

### A3H Advantage in an A3 Band

A well designed and well operated A3H emission system has inherent advantages over standard double sideband emission, A3. Presented with a A3H signal, the listener will naturally tune to that sideband causing the carrier to be on one side of the receiver IF bandpass with the sideband components filling up the bandwidth of the receiver. This improves response of the high-frequency audio components, frequencies above 3 kHz. These frequencies have long been recognized as those containing the intelligence of speech. If this is done with an A3 signal, as is often necessary to minimize interference, half the sideband power is lost. Maximum modulation is an equivalent 50%. But in A3H emission, that one sideband contains all the power for a full 100% modulated signal. (Only the upper half of the transmitted audio spectrum is limited to 50% modulation in order to keep the spectrum within the band allocated.) This is at least a 3 dB improvement in signal-to-interference, effectively doubling radiated power. Because of a quadrature effect of co-channel A3H and A3 signals, there is a total of approximately 7 dB improvement of A3H over A3 emission.

### Conclusion

This proposal does not intend to recommend change in the system simply for the benefit of change, but rather to suggest that the interference problems being experienced by all broadcasters requires each of us, and each administration, to consider modifications in our operation and techniques in order to provide a better signal for the listeners in

the intended target area.

Spectrum conservation is a necessary aspect of our proposals to the WARC-79 conference. The information presented above shows that there are techniques and types of emission compatible with all receivers in use today. In order to be most effectively implemented, it is desirable to have all international broadcasters operate with the same form of emission, thereby making the most effective use of the spectrum. The implementation of this or any other spectrum conservation method could be instituted in certain segments of each broadcast band, giving each broadcaster time to invest the required equipment for each transmitter.

This report does not intend to support any particular method of compatible single sideband. In fact the standard emission specifications presented are based on certain European systems which in effect are vestigial sideband emission systems. This allows each administration to adopt a system it finds best, while still keeping within the emission specifications for compatible single sideband.

\*\*\*\*\*

RUSSIAN TRANSMITTER SITES VERIFIED BY U.S. DXERS

TOTAL: 65

7/16/76

EUROPEAN USSR: 21

Archangelsk  
Armavir  
Gorki  
Kalach  
Kalinin  
Kazan  
Kingisepp  
Konevo  
Kursk  
Leningrad  
Mitchurinsk  
Moscow  
Murmansk  
Orenburg  
Riazan  
Serpukhov  
Ufa  
Vologda  
Voronezh  
Tula  
Zhigulevsk

BYELORUSSIA SSR : 3

Minsk  
Moghilev  
Orsha

UZBEK SSR

Tashkent

LATVIA SSR

Riga

AZERBAIJAN SSR

Baku

ASIATIC USSR: 19

Blagoveschensk  
Chita  
Irkutsk  
Kenga  
Khabarovsk  
Kanty-Mansiysk  
Komsomolsk-on-Amur  
Krasnoyarsk  
Magadan  
Nikolayevsk-on-Amur  
Novosibirsk  
Omsk  
Petropavlovsk-Kamchatka  
Sverdlovsk  
Tyumen  
Ulan Ude  
Vladivostok  
Yakutsk  
Yuzhno-Sakhalinsk

TADZHIK SSR

Dushanbe

GEORGIA SSR

Tblisi

TURKMEN SSR

Ashkabad

KAZAKH SSR: 2

Alma Ata  
Dzhambul

LITHUANIA SSR

Kaunas

UKRAINE SSR: 9

Ivano-Frankovsk  
Kharkov  
Kiev  
Lvov  
Simferopol  
Starobelsk  
Nikolayev  
Uzhgorod  
Vinnitsa

FINNISH-KARELO ASSR

Petrozavodsk

KIRGHIZ SSR

Frunze

ARMENIA SSR

Yerevan

ESTHONIA SSR

Tallinn

INACTIVE SINCE MID-60s

MOLDAVIA SSR  
Kishinev

(not included in  
above totals)

COMPILED BY:

ALVIN V. SIZER  
22 COUNTRY WAY  
NORTH HAVEN, CT 06473

(Edited frequently,  
Updates, additions,  
corrections, welcomed)



**SSR-1**

COMMENTS ON THE DRAKE SSR-1

by Richard L. Mitchel, Cupertino CA

I own a SSR-1 and would like to add some comments to the July review of it (July 1976 SWC). I am pleased with the receiver for reasons obvious from the review, but I have noticed a slight problem with cross modulation. I can sometimes hear strong stations (WWV on 5000 kHz, and KGEI on 9615 kHz) up to 25 kHz away from their frequencies. Drake put the attenuator on to minimize this. It works, but I do not like to use it because it cuts into the signal that I am listening to.

Also, I did something to help the frequency readout that might benefit others. I discovered that the error in the kHz dial was constant across all settings of the MHz dial so that if I could find the error at one MHz setting, I would know it at the others. I thus put a scale on the clarifier control by making a piece of paper with marks every  $7\frac{1}{2}$  degrees and taped it on the receiver under the control. I let the receiver warm up and set it to USB. I then set the kHz dial at each one of the 10 kHz markers from 500 to 1490 kHz (there is a station almost every 10 kHz at night), zerobeat the signal with the clarifier control, and noted its setting. By setting the clarifier control when I am tuning, I can get down to a little better than 5 kHz.

I hope this is useful to SSR-1 owners.

#####

**NASWA Special Publications**

The following items are now available from your Shortwave Center editor.

The NASWA Official Radio Country List and Awards Program, a 15 page booklet listing NASWA Radio Countries and NASWA rules for country and station counting. The NASWA awards program is also explained. This booklet is available for one 13¢ stamp domestically or for sufficient U.S. mint stamps or IRCs to provide postage for a 1 oz letter to your country. Extra protection may be had by sending a SASE, business size only.

NASWA REPRINTS NOW AVAILABLE (shipment late in August)

The following NASWA SPECIAL PUBLICATIONS are now available. These are reprints of articles that appeared as serials in SWC in recent months.

Special Publication One. KEEP IT QUIET, by Morgan Monroe. Morgan is a DXer of many years and has drawn on his long experience to provide some tips on ways you can work to eliminate or reduce noise that bothers your DXing. (9 pages, postpaid for \$1.00)

Special Publication Two. PRECISION FREQUENCY MEASUREMENT in the Mediumwave and Shortwave Bands, by Charles Taylor. Charlie is a technical expert and explains fully the heterodyne method of measuring broadcast frequencies to as close as 1 Hz. (12 pages, postpaid for \$1.00).

(Note: These Special Publications are on  $8\frac{1}{2}$  x 11 sheets, front and back. The type is slightly reduced with a very wide right margin to permit binding in ring or gripper binders. Order yours today. Make all payment to: Jerry A. Lineback

For Air Mail outside of the U.S., please  
add postage for 1 oz to your country.

P.O. Box 325  
St. Joseph, Illinois 61873  
United States of America

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**Propagation**

REPORTS ON ENHANCED PROPAGATION

by Jerry A. Lineback

Several months ago your editor requested reports from members listing stations heard under what they considered enhanced conditions. Several interesting reports were received, but response was not great enough to make meaningful conclusions from. Thanks to Dan McCarthy, Pitt McNeil, Bart Beal, David Walcutt and David Snyder for sending information and reports. Those reports of enhanced reception conditions generally fell within the declining phase of a solar activity peak. Others fell during extremes (high or low) of geomagnetic activity. A few showed no particular relationship to reported indices. A couple of different ways to record propagation conditions or reception conditions came out of this and will be reported later.

We urge all of you who have made studies of propagation enhancement, DXing in relationship to the solar cycle, or other aspects of solar terrestrial conditions to share your results with the rest of us through Shortwave Center.

Sunday, July 11, 1976

# Sunspots May Wipe Out CB Chatter

BOULDER, Colo. (UPI) — A federal scientist says Citizens Band radios will be "nearly useless" for several years beginning about 1978 because of increasing sunspot activity.

Donald L. Lucas, assistant director of the Department of Commerce's Office of Telecommunications, says the period of peak interference will begin in 1978 and will last three to five years. During that time, he says, CB radios will be "nearly useless for their intended purpose, which is directional, short-range communication."

The problem, according to Lucas, is that sunspots increase the ionization of the "F2 layer," a region in the ionosphere many miles above Earth. The increased ionization causes the F2 layer to become highly reflective.

"Normally, a CB radio signal goes out in all directions," Lucas said. "When the F2 layer is not highly ionized, the upward-bound part of the signal passes through the F2 layer and on out into space."

When the F2 layer is ionized, however, it reflects the signal back to earth at a random point, possibly hundreds of miles away from where it originated.

"You can imagine what kind of a mess will be caused by 20 million CB signals, all bouncing back to earth at random," he said. "The reflected signals

will cause a jumble of static which will knock out most local signals beyond a mile or two."

Lucas said the interference would be most prevalent during daytime hours in the fall, spring and winter months.

"The F2 layer is relatively stable during the summer and, therefore, does not ionize to the point where it becomes so highly reflective," he said.

Lucas said the interference would be most prevalent between 15 and 40 megahertz, the radio frequencies used by CB and ham operators, medical diathermy machines and landmobile units. Some police, fire and industrial frequencies also will be affected but to lesser extents, he said.

During the summer, CBers

will be hampered by another form of interference called "sporadic E-skip."

This type of interference, which is unrelated to sunspot activity, occurs in the "E layer" just below the F1 and F2 layers.

Skip, unlike the interference caused by ionization of the F2 layer, occurs in patches which come and go. Many CBers currently try to bounce their signals off the skip patches, enabling them to talk to points around the country well beyond the 150-mile legal limit imposed by the Federal Communications Commission.

"For some reason, which we can't explain, E-skip is very pronounced in the summer months at mid-latitudes in the United States," Lucas said. "This is directly contrary to the monthly variation in interference from the F2 layer, tending to make the in-

terference potential from both sources a year-around happening."

Lucas said the F2 interference is related directly to the number of sunspots, which occur in 11-year cycles. Low-frequency communications generally are disrupted only during the three to five years of peak sunspot activity during the middle of a cycle.

"The same thing happened during the last 11-year cycle, but very few people noticed it because there weren't that many CBers on the air," Lucas said. "And the same thing will happen during the next cycle and every cycle after that."

"With the increasing number of persons using CB radios, it may get to the point where you'll be lucky, during these periods of peak sunspot activity, to be able to talk to your neighbor a mile or two down the road."

The above is from the Logansport IN Pharos-Tribune and is offered without comment.

## Propagation Conditions

By Jerry A. Lineback, Shortwave Center Editor

In addition to the letter at the beginning of this Shortwave Center, it has been reported by Glenn Hauser via DX Hotline (see IN for more detail) that the agency responsible for the propagation information broadcast on WWV at 14 past the hour, may also have to terminate broadcasts due to lack of \$\$\$\$.

This agency is the Institute of Telecommunications Science at

Boulder. Glenn also reports that there is a possibility that propagation information by mail may also be stopped. The date for this elimination would be the end of September. This matter is beyond the control of the agencies involved. Comment and complaints should now be directed to the Secretary, Department of Commerce, and to the Representative to Congress from your district and to your state's Senators in Washington. Be sure to write in a reasonable tone and explain why you think these services could be continued. The names and addresses of your Congressman and Senators are often printed in your local newspaper.

As long as the information is available, we will provide A-index and solar flux values for the past month in SWC for those keeping records.

July 1976; The first value given is the A-index to geomagnetic activity and the second is the 2800 MHz solar flux value.

1	20	67	8	13	67	15	16	69	
2	10	67		9	11	67	16	13	68
3	12	67		10	7	68	17	5	67
4	11	67		11	5	68	18	6	68
5	7	67		12	5	68	19	7	68
6	6	67		13	6	68	20	5	67
7	8	67		14	7	68			

A very weak solar flux peak may have taken place about 15 July. The next peak should take place about 11 August. Solar activity continues at a low pace. Geomagnetic activity also continues subdued. The A-index values have not exceeded 25 since May. Geomagnetic peaks did take place on 30 June, 8 July, and 15 July. Similar activity is expected during August. One recurrent peak is expected on 27 July. Another period of activity should take place during and after the August Solar Flux peak. Lack of current information will make prediction more difficult for all those interested in studies of shortwave radio propagation.



Edward C. Shaw  
 QSO Editor  
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 Lexington, KY  
 40502

A very nice response from the first appearance of QSO/NASWA, and encouraging to say the least. The responses received thus far indicate that there are a lot of unanswered questions out there; many of them being asked by several people.

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U.S. POST OFFICE

### EQUIPMENT REVIEWS - HOT DOG!

One prevalent question asked basically why there were not more reviews of equipment. Despite the fact, we had two short reviews in the July issue of FRENCH, the answer is two-fold: 1) There is not that much to review which has not been reviewed, and 2) someone has to perform and write the review.

Since there seems to be a definite desire to see something in this line, and as a service to our readership, we have begun a project to assemble a rather neat collection of consumer reviews on a variety of receivers and other hobby equipment. It will take about a month to complete, and we'll let you know when it is ready to be provided for use in Jerry Lineback's Short Wave Center.

Jim Conrad of Waterloo, Iowa wrote to express his sincere pleasure at a recent meeting with Don Jensen, Gerry Dexter, and Ralph Perry. Jim is in the broadcasting journalism field planning a move to Wisconsin. During one impromptu drive through the area, Jim dropped in on Dexter for an evening and learned what it was like to tune a RACAL receiver. The next day, lunch was spent with Perry and Jensen. One meets the nicest people in the DX hobby, and you can be sure of something to do practically anywhere you go if there are DXers in the area. Conrad, by the way, has prepared for NASWA on a two-hour cassette the entire text of the "DXing According to NASWA." If anyone is interested, please write to Mac Leonhardt at HQ for details.

Jim Scott of Don Mills, Ontario sent a nifty idea of how to mount your QSL collection on a wall for display - without damage to the cards or purchasing expensive sleeves. A package of tacking putty is available in several brand names...such as "Hang It"...and costs less than \$1.00. A pinch on each corner of your cards will affix it to your wall. It won't damage the card at all except for a slight discoloration where the putty was when it is removed. Thanks Jim; this answers a question often asked.

### REASONABLE ELECTRONICS OUTLET

Although NASWA certainly does not intend to single out any one company to advertise, we do feel it is within our purview to advise our readers where good deals and bargains may be found. Write this company to obtain their current catalog. It contains listings of recorders, O-scopes, TV gear, meters, motors, but NO CW receivers. HERBACH & RADEMAN, 401 East Erie Av., Phila. PA 19134.



"But, did we have to come NOW? Africa were just coming in!"

Our access to good authority advises that SONY CORPORATION will introduce into the U.S. this fall their portable model ICF-5900, currently a big hit in Japan for \$98.00. That is not to say it will be sold in the U.S. for the same price...nosiree! The SWL hobby is experiencing a near phenomenon in explosive interest in Japan and the new ICF-5900 seems to be the one to fill the bill. It is solid state, employing Integrated Circuits and has FM as well as short wave. The coverage is up to 18 MHz with no breaks, and frequencies are read to within 5 KHz resolveny:

Also surfacing in the blossoming Japanese market is a new JJ language book on the hobby called... "BCL". From its appearance, it is intended to be a substitute or supplement to the WRTH. BCL contains a lot of hobby basics in addition to just pure station statistics.

A more expensive SONY portable called CRF-320 sells for \$1,600.00, and has nearly everything you could ask for on it.

At right, a composite page from BCL.

Joseph M. Francisco, 13103 Cullen Street, Whittier, California 90602, writes some very complimentary words and additionally offers to translate for NASWA members in the Spanish language. Here is your chance to get that personal touch letter composed for that elusive Radio Minipotencia in Latin America - or perhaps you need to get that (QSL?) letter translated. Send Joseph your letter or xerox copy with explanation of what you need. Please have the courtesy to provide a stamp and return envelope for his use.



株式会社国際コミュニケーションズ

## 世界の放送

BCLのすべて

編集・ニッポン放送



As expected, the Poppins did visit the USSR last month, and apparently they enjoyed their travels immensely. Incidentally, it might be made known that George has family ties from the USSR.

A visit with Radio Kiev's English Department evinced little knowledge about NASWA or FRENDX, yet the director knew many names of persons who are NASWA members. Greg Ravenhorst of NASWA's Log Report; and the Minnesota DX Club were recognized by one of the announcers named Inna.

In the course of discussions, George very wisely plugged in the suggestion the Kiev should mention exact frequencies - not just meter bands - at the beginnings of transmissions. He also tried to learn something about xmtr sites, but achieved only an abstract and non-committal answer like "Moscow" and "beyond the Urals". The Poppins's visit was souvenir profitable, too, since they were presented with records of Ukrainian music, books of folk tales, and bouquets of flowers. Their meeting with Radio Moscow personalities was not so long, but Mrs. Stepanova was a hit; Mrs. S. is aided by Lucy Larina due to a heavy workload which we can understand. She seemed to know all DXers by name & location. (Wow!) Mrs. S. presented the Poppins with souvenirs and a conveyed her greetings to us hobbyists. Thanks George, for sharing with us an enviable visit.

75. es qvd dx

Ed

# Listener's



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

# Notebook

**PROPER CREDIT** Other clubs & broadcasters may use material from LN provided due credit is given to the original reporter and NASWA. BBC Monitoring Service items are copyright, may not be further reproduced without permission. # Times GMT; dates backward by month/day

**ALBANIA** R. Peking relay sked same as 9/75 LN-1 except 0200-0300 Spanish 6150 ex-9500 (BBCMS)

**AUSTRALIA** R. Australia has unlisted French pgm, hrd Fri 7/23 after "Calling Antarctica" (v. Program News) at 0430-0445 on 15240 only, not //15320. Sked claims this is 10 kW Lyndhurst, English-only 2230-0730, on 110°. Nearest French-speaking area on that beam is Halti (gh) SSB feeder sked on 9450 1430-1730, 1800-2000, 2100-2300; 9210 1400-1730, 1800-2230 (BBC MS 5/76 per RA) (Cf July LN-3.) Five minutes before a special nine-language BC on a foreign policy statement by Prime Minister Fraser, union engineers blacked out RA-Carnarvon at 0925 6/1, over a safety dispute. Union leader said one man had a lucky escape, and safe fencing was required. RA Director Phillip Koch said the strike was tantamount to sabotage. (The Age, Melbourne, 6/3 via David Foster, DUDXC who adds.) Off till at least 6/6, when I holidayed. By 6/15 back with 100 kw'er only; 6/17 250 kw on, 100 off. Is nothing sacred?

**BANGLADESH** RB HS J76 6190 0000-0500; 7250 0600-1315; 4790 1315-1730; 4890 0000-0305; 6090 0600-1000; 6015 1030-1300; 3965 1330-1730 (WRTH Newsletter via DSWGI)

**BOLIVIA** R. 21 de Diciembre, 6082, off since 6/9 military takeover; R. Progreso, 6005, also missing since then but reason unknown. All others still on including R. Animas despite military occupation of the mine 6/22, 4965 (Tony Jones, nr Asunción, Paraguay, via NU 7/3)

**BURMA** (Cf May LN-2) Future sked can be determined if present language-rotation system remains unchanged. E.g. 7/26 to 8/8 1000 Chin, 1030 Mon, etc. Next two weeks Mon would start at 1000; 1030 Arakan, 1100 Shan, 1130 Kachin, 1200 Kayah, 1230 Sgaw Karen, 1300 Pwo Karen 1330 Burmese stays here, 1345-1415\* Chin; all this on 4725 (Isao Ugusa, Kobe, Japan)

**CANADA** (Cf Jun LR-C 9675) I also hrd it 5/3, 5/4, and 6/24 at 0440 when to my amazement the RCI IS was played twice, and then continued (James Mulvey, Seaford NY)

**CHINA** We have from BBCMS extensive skeds for R. Peking HS; HS in minority langs; Taiwan service; and PLA Fukien Front. Due to length, space limitations, having published previous versions without much interest expressed, we'll only give frogs for each now. Comments? R Peking HS-1: 17605 15590 15550 15230 12420 12120 10245 7935 5320 4905 4460 3450; 7095 6750 6225 5880 5860 4800; 11330 11290 9080 9064 7504 6665. HS-2: 15030 12200 11505 11040 9745 9670 7770 7190 6345 5163 5075 4850 4250; 9610 8005; 10260 9020. Kazakh, Uighur, Mongolian Korean, Tibetan: 9920 8565 6645 5915 4770 6080 3900 5440 4970 4110 7050 7200 4895 6086 6045 8260 6430 4620 9920 8565 9653 9490 4035. Taiwan Service: 15880 15710 11100 9170 4690 5125. PLA-1: 7850 6765 5900 5265 5240 4330 4045 3640 3535 3000 2490; PLA-2: 8195 7280 7025 6000 5770 5170 4380 4140 3900 3400 3200 2600 2430 1830 kHz (BBC MS 6/76)

**COLOMBIA** Brieas del Citará, nom. 5030, has reactivated after 2 year absence on 5032 (Jan Tunér's Scandinavian DX Report, R. Nederland 7/8 via gh) Harmonic of R. Central Todelar, R. Libertador on 2580, sometimes hrd with good signals, is gh's unID in July FRIENDX-39 (SWNS) No, it isn't later IDed as R. Pipatón, also Todelar, Barrancabermeja (Crimson Cliff), as late as 0600 (gh) I had positive ID for R. Libertador, Call 7/3 at 0130 (G.M. Stanbury, TDXN) I had a positive ID for R. Pipatón 7/20 at 0100; sometimes hrt; could be both (gh)

**CHILE** R. Colo-Colo is heard on 4885 (Tunér, as above) ¿Chile on 60m? (gh) **CUBA**: LN-3 bottom **DOMINICAN REP.** (Cf July LR-C-4 11700) May be lottery drawings. Could hear rattling in background. Back in early 30's HIX had National Lottery on Sun morns (Jack R. Jones, Jackson MS) The numbers are the tickets; most stations carry since at least the 40's (Terry L. Krueger, Casselberry FL) Format hasn't changed a bit since I arrived in DR in late 1952! (Victor C Jaar, Charlesburg PA) Who ever heard of stock market quotations on a Sunday? (Stanbury)

**EGYPT** R. Cairo has made lots of time changes: 1515-1555 17725 Nyanja 1655-1745 17725 Afar 1200-1315 21465 Indo. 1415-1500 21465 Thai 1530-1730 11940 Swah. 1745-1845 17725 Amha-1315-1415 21465 Malay 1445-1545 17920 Bengall 1555-1655 17725 Somall ric 1330-1430 15175 Pushtu 1530-1700 15175 Urdu 1630-1715 17890 Sesuto (BBCMS 6/17)

**GAMBIA** Gambia definitely intimated in a letter to me that SW would cease in 6/76. Whether it does or not is not the point as one must pass on news as and when received (Gorry Wood, Capetown, South Africa) Surely. Now, has it? (gh)

**GERMANY WEST** On 7265 7/10 0300 and 0305 I hrd "SDR" ID; everyone knows it's SWF the I've never hrd that on many nights. Another time I hrd R. Bremen ID. Which is it? (Guy Dunn, NJ)

**GERMANY WEST** GAO study shows some RFE/RL Munich staffers get salaries double government's pay scale because of favorable conversion rate to marks. Report said more than \$3 million could be saved by moving to US (Broadcasting Magazine 7/12, via Gerry Dexter, NU)

**HONDURAS** Lengthy letter from R. Swan manager Rafael H. Nodarse responds to 'assertions' I made in May-June Elementary Electronics article. Nodarse now distinguishes between "la antigua Radio Swan" and "Radio Swan en la actualidad." Claims original RS not linked to Bay of Pigs invasion (despite considerable indication to contrary). Says he was member of the Battalion of Paratroops at the Bay of Pigs. Denies Nodarse is "un apellido ficticio", but one of the best-known Cuban families. Claims no great mystery about RS, that it is legally registered in Honduras, and is inc. Definitely states it is in no way linked to CIA. He failed to comment on: why the attempt to link the new station to the old, including choice of name, why the uncooperative attitude of Nodarse and the Hond. govt. in past attempts to get info; why stn seems to have no call letters; what is link between Hond. govt. elements and the station, etc. (Don Jensen, Kenosha WI)

**IRAN** R. Iran main HS on new 15315 1315 to 2000 fade. At 2030 11770 changes to 11780 to relay HS // 15085 (BBCMS 6/24)

**ISRAEL** Actual IBA Hebrew HS sked, as observed, corrects sked appearing in various places. B Program: 0400-(0500 Sat)-0600 on 15512½ 12077½ 9009. 0600-1800 15512½ 12077½. 1800-1830 on 12077½. 1830-2000 15512½ 15265 12077½. 2000-2305 15512½ 12077½ 11602½. A Program: 1800-1830 in Ladino, Mograbit on 15512½ 15265 (Larry Magne, Rockledge PA. as of 6/20)

**KENYA** VOK lang nets: 1: Kiswahili; 2: English; 3: Hindustani, Kikuyu, Kikamba, Kimeru. Kismasi, Somali, Borana, Luluya, Kalenjin, Kuria, Kisi, Rendile Teso (Mike Willis, Victoria)

**KOREA SOUTH** Temp sked from KBS differs from June LN-4, July LN-6: American Svc Eng 0400 1000, 1530, 1800; Spanish 1030; Korean 0430, 0930, 1600, 1830; on 11860 9640 7150 (these are kilohertz, not millihertz as they listed!) 9640 list for LAm Svc 0930-1100, langs as above. Don't know if correct. All xmsns 30 mins. (Tom Overcamp, Seneca SC, 7/7) **LIBERIA**: more p3

**LIBERIA(?)** Don't be surprised if BBC Portuguese 2200-0015 on 5995 turns out to be Monrovia (SWNS) Is via Ascension, per BBC Engr sked & published LA Svc details (Alan Thompson, UK) If we can believe that; when I heard it, the signal strength diff between 5995 and // 6110. (g also supposedly Ascension, was extreme. They lie about using UK stead Greenville 0030 9510 h)

**MALAYSIA** RM on new 7185 7/5, QTH unid, // Penang 4985; fair 1100-1400: 5005 not hrd (Ugusa)

**MALI** Bamako testing everywhere! One day 0600-0700 on both 4875 4881; seems stabilized on 4783 4881 5995, morn and eve, GNT (Robert Hanner, S. Caulfield, Victoria) \*0600 5996; Suns on 11960, 7110 at \*0800. Langs are French, English, Bambara, Peulh, Sarrakole, Tamachek, Sonrai, Moorish, Ouolof (Mike Willis, Hampton, Victoria) Last same as Wolof (gh)

**MAURITANIA** Nouakchott R now IDs as the "Mauritanian Radio from Nouakchott and Dakhla".

Dakhla is the former Villa Cisneros in the former Spanish Sahara (BBCMS 7/1)

**MONGOLIA** RUB back on 41m at 1300-1500, 7262 and 7236 at 1300, 1400 Chinese 1330, 1430 Mongolian; ex-4948, 5960. Also back at 0900 on 7260 in Mongi; at 0930 relays Moscow Mong (Willis)

**MOROCCO** Rabat modified Arabic HS 7/4; 15330 1000-1400, 15415 1430-1700 replace 11735 (BBCMS)

**NEPAL** Kathmandu operates on 7107 5009 3425 (BBCMS 6/17)

**NIGER** The real name of the national radio stn is La Voix du Sahel (Mike Willis, Hampton Vic)

**NIGERIA** Langs from VON, Lagos, founded 1957 are: Hausa, Yoruba, Ibo, Fulfide (Fulfulde? gh), Kanuri, Tlu, Nupe, Idoma, Igbirra, Birom, Urhoho, Edo, Ijau, Itsekiri, Efik (Mike Willis)

**PAPUA NEW GUINEA** All Dist. stns 1200\* 95% of occasions I heard; rest vary 1155-1215. Policy differs from WRTH76. QSLs say economy limits hours to 0700-1200 but e.g. Goroka 2410 planned to add 1900-2200 daily from 6/30. Instead of the regular anthem at s/off I hear at /DU times Sousa marches, Colonel Bogey, and "What a friend we have in Jesus" (John Campbell. DXG)

<b>PORTUGAL</b> Rdif Portuguesa	15340	FR 1830-1900 WAF (Sun)	9740	PT 1345-1700 Europe	
21735	PT 1100-1200 SEAs/Au+21700	PT 1830-1900 ST&P (Sun)		PT 1700-1800 Europe (w)	
21700	PT 1100-1130 S Tomé & P.	PT 1900-1930 ST&P (w)		PT 1800-2000 Europe	
	PT 1130-1200 Angola	PT 1900-1930 Angola (Sun)		SP 2000-2030 Europe	
	PT 1200-1230 Mozambique	PT 1930-2000 Angola (w)		EG 2030-2100 Europe	
	PT 1345-1700 Brazil	PT 1930-2000 Moz (Sun)		FR 2100-2130 Europe	
21495	PT 1330-1400 G-B & CV	PT 2000-2030 Moz (w)		GM 2130-2200 Europe	
17895	EG 1400-1430 India (w)	15125	PT 1345-1700 Brazil	IT 2200-2230 Europe	
	Konkani 1430-1500 India (w)		PT 2030-2100 G-B & CV	9635	PT 2100-2230 Waf & SAM
	PT 1500-1545 India (w)		PT 2100-2230 Waf & SAM		PT 2230-0030 Brazil
	EG 1600-1630 ME (w)	11935	PT 0300-0230 NAM/fisher		SP 0030-0100 IAm
	FR 1630-1700 ME (w)		EG 0230-0300 NAM enst	6025	0030-0530 as 11935
17880	PT 1100-1230 as 21700		PT 0330-0430 NAM		0400/2230 as 9740
	1700-2030 as 15340		EG 0430-0500 NAM west		Note: 2 pgms at once 0400-0530
15340	EG 1700-1730 Af (Sun)		PT 0500-0530 NAM		same case on 21700 1100-1200
	FR 1730-1800 Waf (Sun)	11840	2100-0100 as 9635		Also, 10 kW HS relay to Atl
	PT 1700-1800 Af (w)	9740	PT 0400-0600 Europe		Islands 0700-2400 on 11925
	EG 1800-1830 Af (w)		0800-1100 Europe		(BBC MS 6/76 rearranged by gh)

**SICILY** My latest QSL states "You heard part of our pgm beamed by Caltanissetta and the other one beamed by Roma O.C. from 0030-0100 and 0100-0130" This suggests the Caltanissetta relay

(SICILY, contd) is only one half hour long, at 0030-0100, as I have another QSL stating Roma O.C. broadcasts at 0000-0030 and then from 0100- onward. I conclude Caltanissetta broadcasts at 0030-0100 only. I hope this is some combo of helpfulness and obvious confusion. (Bd Insigner, N Plainfield NJ) Italians hate GMT: times specified as such? Or assumed CET. or, currently CEDT (GMT plus 2)? Best solution may be to redeclare Sicily part of Italy as it is for all other purposes, and then it wouldn't matter so much, hi (gh)

SPAIN RTVE 2045-2145 Spanish to LAm is a relay of Central Atlantic Radio, Tenerife; on 15375. (BBCMS 5/76; emphasis added) Usually Tenerife relays Madrid, not vice versa (gh)

SUMATERA Non-verbe from RRI Tanjungkarang lists freq as 4000. not 3995 as WRTH and where I hrd then, also lists 2804, not in WRTH, untraced; sked 2200-0130, 0455-0715, 0900-1600 Will not QSL Jakarta relays, only local pgs; v/s Syaif' I Zainuddin.sh (Jim Davis, Travis AFB CA)

SWAZILAND (Commercial) Radio sked on 3223, 0500-0600 1500 to closing varying 2030-2115; on 4980 0500-0800, Sun 0800-1100, Sat/Sun 1100-1330, daily 1330-1500. On 6155 Sun 0800-1100, Sat/Sun 1100-1400. English ID is "R Truro" (?-gh), Portuguese "Paralelo 27" (Richard Ginbey, SAF, via SCDX French & English 7/20 via gh) Swaziland is about 27°S latitude (gh)

SWEDEN R. Shvetsiya had a special unintentional Russian BC to LAm 7/18 at 0300 when wrong pgs put on 11705 xmr. No such luck on 7/19 when I wanted to hear Russian SCDX: (gh)

TANZANIA RT ES on 1600-1830 announced as to E/C/SAF; 1830-2015 C/SAF only; 15435 throughout but 9750 closes 1915 (BBCMS 7/1)

TIMOR Three active stations are: R. Dfll hrd daily on 3550 \*0900-1500\* (Sat 1600\*) and believed the one on 3850, 0945-1400\* with different pgs, and QTH? R. Maubere transmits on unk. freqs, one allegedly 3804. RRI Kupang seems inactive (David Foster, DUDXS 6/27) 3850 is East Timor Provincial Govt. Stn (Craig Tyson, Wembley, W.A. via NU 6/19) hrd most days. after 1100, stronger than 3550; mostly popular Indo mx (Bob Bodell, Portland OR, NU 7/10)

TUVALU On 1/1/76, Gilbert Islands separated from Ellice, latter renamed Tuvalu (Bobby Hobbs. Rocky Mount NC) However, no SWBC there currently (gh)

USA WYFR J76	100 kw #3	1200-1350 15370 183 14
100 kw #1 kHz ° zone	1600-2250 17845 052 27	1400-1600 15150 183 14
1600-2050 15440 032 29	2300-0150 11855 212 11	50 kw #5
2100-0050 15135 012 21	0200-0500 11855 183 14	1600-2050 17845 100 46
0100-0500 9715 212 12	1200-1600 17865 052 27	2100-2250 17845 160 15
1200-1600 11705 212 12	50 kw #4	2300-0050 15215 160 13
100 kw #2	1600-2050 15110 052 27	0100-0500 6155 232 10
1600-2250 11805 052 28	2100-2250 15440 052 27	1200-1350 17730 160 13
2300-0050 11855 160 15	2300-0150 15440 183 14	1400-1600 15440 212 11
0100-0500 9525 232 10	0200-0250 11720 212 11	Transmissions at 1200-1600 are
1200-1600 15100 052 27	0300-0500 5985 212 11	Sunday only (Stan Leinwiler. DC)

USSR R. Moscow Pgs I and III HS SW freq skeds we have now as of 5/76 from BBCMS: inquire (gh)

VENEZUELA R. Frontera 4760 "la estación se escucha, ...la internacionalista, ...con la canción" may have upgraded equipment, or reactivated; stronger now, 0230 (Jim Whitehead NU 7/10)

VIETNAM Hanoi on new 9988 1100-1600, formerly occupied by VNUFK; weak // 10224 Also back on 4858, 1200 past 1600 // 10224 (Willis) Hanoi HS on 4935 ex-4930. 1030 past 1300 (Hanner) Saigon back on 6165, 0900-1500. Tay Bac hrd at 1200 on 4770 6328; no more on 9646.5; on 6329 at 1220 // 4770. Viet Bac formerly on 4033 6720 6863, missing 7/4 (Willis) On new 4103v, 6/18 possibly ex-4030v // 6905v; hrd at \*1125-1400\* (Isao Ugusa, Kobe, Japan) Tay Nguyen nice at \*1045, 7512 9841 (Willis) On 7/2 N & S Vietnam became the Socialist Republic of Vietnam (BBCMS)

WEST IRLAN RRI-Jayapura now on 9612.5v9613 \*0758 (Gib Junqua, Osaka, Japan) to 1400\*. 2200 past 2230, 0345; ex-11855, 11730/2, 15298/300, 17774/92 etc (DUDXS)

YEMEN NORTH 9780, 50kw, logperiodic ant toward Cairo; 7235 50 kw, omni ground-plane; both carry HS 0300-0700, 1100-2200 (Wolfgang Bauer, Munich, GFR, via SCDX 7/6)

YUGOSLAVIA R. Belgrade xmr sites: 15240 Pristina; 11735 Novi Sad; 9620 Nis 9505 Titograd. SW relays of HS-First pgs at 1400-2305 on 9505 and 7200 (BBCMS 5/76)

ZAMBIA ES on new sked: 0550-0720 Sun on 7220 or 7230 and 11880; 1050-1215 Sun 11880 17895; 1550-2115 (Sun 1650-2015) on 6060 6165 9580. in English, verns, Afrikaans. Also, 50kw HS xmr varies 4910 to 4930 (Richard Ginbey, RSA, via English & French SCDX 7/20 via gh; the Spanish said Sat, not Sun; English said 0530, 1030, not 0550, 1050; RS act is not together)

UNIDENTIFIED I hear an Indian-type stn on 6012v; no, it's not the Nepali service of AFAN-McMurdo (Robert Hanner, South Caulfield, Victoria, Australia)

LIBERIA (sorry, misort) ELWA sked: 3227, 10 kw, D. 0610-0800, 1805-2220 in 19 Af langs; 4770, 10 kw, Sun 0655-2245, W. 0630-0800, 1555-2300, Sat 0630-2300 in English & 11 Af langs; 6075, 50 kw (ex-9550) 1810-1945 French & 5 Af; 2550, 50 kw, 1210-1345 French & 5; 11940, 50 kw, 0555-0730 Arabic, Berber; 11945, 50 kw, Sun 0800-0930, 1700-1800; Mon-Sat 1655-1800 Fr. (Richard Fritzsche /sp? -gh/, GDR, via HCJB DX Party Line 7/8 via gh)

CUBA This may be a first: 7/23 I heard one RHC spur QRring another one! Filthy 15230 had nice stable spurs on 15215, 15245, but at 0438 a wandering spur, also with same 15230 audio of "Formalmente Informal" pgs with Angolan music, slowly crossed 15245, with decreasing, then increasing het. Traced past 15250, 15260, 15290 stns and 15300 calibrator, but lost before 15320. From this I calculated fq acceleration as .023 kHz/sec--the only proper use of that quantity! Before this gone, another wanderhet crossed 15265 downwards at 0508:20 (gh)

**CLANDESTINE CRANNY AUSTRALASIA** New Hebrides QSL from Nagriamel president Jimmy Stephens gives name as R. Tanafo, not Vanafu, as often mentioned in New Hebrides News. Perhaps just a little mark of disrespect by the British Info Office which publishes NHN: (Robert Yeo, Doncaster, Vic, NU 6/19) (Cf July LN-4); Voice of the Malayan People, first heard 3/22, pours vitriol on the pro-Peking Communist Party of Malaya on behalf of a breakaway Marxist-Leninist faction. Experts in Malaysia are extremely skeptical of reports that it broadcasts from Indo-China. They say it's low-powered and probably operated by a bicycle-driven dynamo or motor vehicle batteries, hidden in dense jungle just north of the Thai border with Malaysia. All three outlawed but armed communist factions operate in that area. Barely audible in Kuala Lumpur, 320km away. Far cry from powerful Voice of Malayan Revolution, believed sited at Hengyang, China. ("The Age", Melbourne, 4/24 via DUDXS) Besides Kuoyü and Malay, uses Cantonese 2130-2200, 1200-1230; freq varies 7080-7084 (BEGMS 7/1) VOMR sked: on 15790 11830; \*0430 Malay, 0515 Kuoyü, 0550 Tamil, 0635 Kuoyü 0715\*; \*0930 English 1015\*; \*1030 Malay, 1115 Kuoyü, 1150 Tamil 1235\*; \*1245 Malay, 1330 Kuoyü, 1405 Tamil, 1450 English 1530\*; On 15790 7305; \*2200 Malay, 2245 Kuoyü, 2330 Tamil 0005\*. Last 5 mins of each is mx; began c. 11/15/69, believed nr Changsha, Hunan (BBC MS 5/76) Sorry, outdated spellings still used (gh) Voice of People of Thailand sked on 9423 6033; 40 min xmsns: 0300, 0500, 1000, 1300, 1530, 2300 Thai; 0400, 1200, 1430 Laotian; 1100 Tu/Th/Sa Mung (White Meo). Believed near Kunming, Yunnan (BEGMS 5/76) Voice of People of Burma (Burmese: "Myama-pye Pey-thu Ah-than"; Chinese: "Mien-tien Jen-mih Chih Sheng Kuang-po Tien-tai") on 5110 0030-0130 and 1200-1300; Burmese Tu/Th/F/Su; Kuoyü Sa; Shan Wed; Jing-paw Monday; first heard 4/9/71, the claims 3/28 start. QTH is on or very near the Burma/PRC border (BEGMS 5/76) South Asia (Cf Jun LN-3) 11725 'pirate'. VOA seems to be testing with music c. 1435, same selections 7/9 and 7/14; around \*1505 another stn came on with grossly distorted mod ruining everything; jamming? (Gib Junqua) VOA-Colombo sked 11715 1500-1800 (gh) Stn with continuous instl mx 9570 11730 1700-2200 (W. Bengal DXer, SCDX 7/20, gh)

**AFRICA** The Rhodesian xtr on 996 kHz is now used only for Portuguese pgs to Mozambique, "A Voz da Africa Livre", 1755-1900; IDs do not mention Rhodesia (R. Ginbey, RSA, SCDX 7/20)

**EUROPE** Italy Since 6/25 'free' broadcasting is legal provided xtrs are for local area only and do not QRM RAI or others; there are more than 500 private stns, all FM mainly 100-106 MHz, powers 10-100 watts. In Rome, nearly 30, one all-English (A. Pendola, Italy, SCDX 7/6) R. Black Peter, Finnish pirate hrd 5/16 in English 1127-1147 on 6224½ (Pinn Krone, DSWCI 6)

## FUTURE PLANS

### Short Waves

32<sup>nd</sup> ROUNDUP  
July 18, 1976

By GLENN HAUSER, Denver Post Special Writer

CURRENT schedules for broadcasts in English from 116 countries appear in a handy Quick-Reference List we've compiled for the North American Shortwave Association. If you would like a free copy, just send a self-addressed stamped envelope to NASWA, Box 13, Liberty, Ind. 47533.

Four weeks ago in this space we passed on the sad news that WWV was having to drop the propagation information at 18 minutes past each hour, as of July 1. This came to pass, and now there's more bad news.

A different agency, the Institute for Telecommunications Science, has been handling the slightly different propagation information at 14 minutes past each hour, and at first planned to improve its service to compensate for the loss of the other minute — by including A-indices, and by making the 6500 GMT forecast more timely.

A WEEK LATER, however, this plan was shelved with the tentative decision by ITS to close down its forecast center completely at the end of September. This would mean not only the total loss of propagation forecasts, geo-

physical alerts, A- and K-indices and solar flux numbers from WWV, but also the loss of a weekly publication setting forth these and other data in greater detail.

The decision was made at the local level by Mr. Douglas Crombie, director of ITS, to whom protests should be addressed at U.S. DOC, OT-ITS, 325 Broadway, Boulder, Colo. 80302. His feeling is that users of the services should pay for them directly, rather than through general tax funds. Unfortunately, there is no way to require this, and still broadcast over the freely heard signals of WWV! Continuing the forecast center past Sept. 30 would require an increased expenditure, due to the retirement of the present chief forecaster, and the necessity to hire his successor at a higher rate of pay.

Send a copy of your protest to your Congressman, and to Denver's Timothy E. Wirth, House of Reps., Washington, DC 20515 (Larry Magne, Philadelphia PA) Check WWV at 104 for word on the outcome (gh)

### USA EXCLUSIVE: "Govorit Sody-Daisy" ???

Serious plans are underway to put a new megawatt SW station on the air from Tennessee, to bring the gospel in Russian to the USSR. Spearheading the project is 22-year old Cliff Hudson, manager of WEDG, who 'felt the call' since his conversion a year ago. He is joined by two broadcast engineers of like mind, who have already visited Red Lion and Greenville for advice; Dallas is their next stop. They are confident that the \$3 million necessary can be raised, following merger with a like-minded group in Chattanooga. Two 500 kW xtrs would feed innovative antennas. The station, possibly on the air by the end of 1977, would be strictly non-commercial (gh)

**SPAIN** RTVE will soon add Dutch, Russian and other langs (Ramón Verdeal Lague & Oscar Nunes Mayo, RTVE reps at EDXG meeting, via SCDX 6/8)

**SOUTH AFRICA** MW Radio 5, SABC will go on SW some time between Sept and end of 1976. SABC once again planning to close all MW by end of 1976. Two new 100 kW SW Telefunken xtrs purchased (Gerry Wood, Radio RSA, 6/22) Probably will use 90 and 120m at night, 60 and 49m days (RSA DX 7/14 via Miss Lauren Ware Fairfax VA) The first 500 kW SW xtr will open 1/1/77; Later two of the three 500 kWers will // for 1000 kW (Ginbey)

**SEYCHELLES** FEBA will use 19 lungs by next September; add African, Indian Ocean targets (")

**PARAGUAY** ZPL5, Ia Voz del Amambay soon to use 6 MHz per ads; no sked given (Tony Jones, NU 7/3)

**OMAN** (Cf July LN-5) Marconi Electronics have contracted with BBC to supply high-gain aerials for 6-26 MHz to be used from Masirah Island by 1977 (Arthur Cushen via DUDX; SWNS) There will be 2 SW xtrs in addn to 2 MW now on (RA DX 6/27)

**NEW HEBRIDES** R. Tanafo in a 6/8 letter said English BCs would begin very soon (Arthur Cushen)

**(MORE FUTURE PLANS) MONGOLIA** In a letter to me last year, RUB said they plan to introduce an Australian and American English service (Mike Willis, Victoria, in DUDX Survey No. 6)

**GUAM** KTRW SW xmtz is under construction at Merizo, south part. Target entire FE including Mongolia & Siberia, to be on by end of 1976 or early 1977; QTH: Box 3518, Agaña GU 96910 (Larry Grow, TWR Field Director, via Sei-ichi Hasegawa, JAD: 5/30 via G1b Junqua. Usaka)

**BRAZIL** Bidding is open for constructing tropical-band stns in Altaneira and Itaipuba in Par . Macei  in Alagoas and Guiba (sic -gh) in Mato Grosso. Applications should be submitted to the Interior Ministry (BBC MS 7/1) Here's your chance! (gh)

**BANGLADESH** The most modern and sophisticated equipment will be installed in RB's new 12-storey Broadcasting House in Dacca, including computerized operational facilities for the national and external services (BBCMS 7/1) Strange priorities (gh) 2 x 250kW xmtz (BBC 7/15)

**ADVENTIST WORLD RADIO** After testing the water by buying time on existing SW stations. AWR is thinking of building some of its own (Allen Steel & Andrea Paige, DX Juke Box 7/8 via gh)

**SUPERPOWER RACE** There are about 600 SW xmtz of 250 kW and more, and many more are being installed, especially in China and the Mideast. There are only 400 SWBC channels available. (Jim Vastenhoud, speaking at EDXC Conference, HIlversum 5/26-30, via SCDX)

**1977 as INTERNATIONAL BROADCASTERS YEAR?** Arne Skoog suggests this as a follow-up to World DX Club Year 1976--a campaign for DXers to support favorite stations and pgms (ANARC 6/76)

**SUNSPOT ACTIVITY TO REACH PEAK IN 1978**, fall and winter (ANARC 6/76 angled at harmful effects) First, sunspot peaks are far more beneficial than harmful for general SWling on higher freqs. Second, the report is unattributed, and I think, although upswings are more rapid than declines, that a mere two years is too soon to expect a peak from the present trough in **VATICAN 1505-1510 new 11875 ex 11810 17825(RA 7/10)**

## BROADCASTS IN ENGLISH

**USA** Watch for special freqs for VOA coverage of the Republican National Convention. Among those for the Democratic were 11740 and 11875 noted 7/16 0339, hosted by Ben Grauer (gh)

**UKOGBANI** BBCWS had a special 5-minute North Atlantic weather summary, repeated and at slow speed, for the Atlantic Yacht Race, not publicized, but found on 7325 7/16 at 0330-0336 when said "Good Sailing" and played "U" chimes to 0344\*; again 7/18 same time announcing 7325 and 3952.5 only, but without postlude; next time checked, 7/23, not on; race over? (gh)

**UKRAINE** R Kiev sked from 9/5, good till Oct change, to Eur 1930-2000 9610 7390 6020; to NAm 0030-0100 1720 15245 15210 15100 12050 7250,7150; 0300-0330 15245 15210 12050 9685 9520 7390 (John Moritz, Jr., Youngstown OH; see also Program News for details)

**UGANDA** (Cf July QRL) 1800 xmsn is on days beginning with T and S only; 2030 is others and Sunday. I have heard them state this several times (David Snyder, Brooklyn NY)

**TAIWAN** BCC sked arriving early June shows 0200-0350 on 11825 15345 17890; 1830-1930 on 9510 11860 15370; 2000-2100 on 17720; to Am, Au, Af, WEu and ME (John Moritz, Jr., OH)

**TAHITI** R T 15170//11825 ending English request pgm 5/30 0250, said would return next week at 4 p.m. (Andy Robins & Bill Whitacre, TDKN) Ergo, GMT Sundays 0200-0300, new! Not on 7/25 (gh)

**SOUTH AFRICA** 5980 replaced 11900 at 2100 (R RSA DX 7/21) And 2230 xmsn observed on announced 11890 7/17, seemingly having conceded radio war with UNO over 11900; however, not found on 25m 7/24, though still announcing band (gh)

**RWANDA** Complete DW English J76 sked: 0430-0515 9565 7225; 0930-1030 21540 17825; 1045-1115 15410 11785; 1200-1245 17765 15410; 1715-1745 9735 7285 (BBCMS 6/76 per DW)

**RSPFSR ASIATIC** Vladivostok HS on 5015 had an English lesson Mon 6/7 around 1020 (SWNS)

**ROMANIA** R. Bucharest 1300-1330 Au 15250 11940 9690 0130-0230 NAm (11940 11775 0530-0600 Af 17840 15340 11840 1500-1530 As 11940 9530 7225 0400-0430) NAm (9690 9570 6190 0645-0715 Pac 17835 15380 1730-1800 Af 15365 11790 9590 (6155 5990 15250 11940 1930-2030 Eu 9510 7225 (BBCMS 5/76) 9570 and 5990 are the only ones worth a dam here(gh) 1200-1230 As 15285 11830 2100-2130 Eu 9690 7195

**PORTUGAL** (Cf LN-2) NAm pgm at 0430 has been retimed to \*0500-0530, on 6025 11935 (John Mainland, NZ, via RA DX 7/18 via gh) Reliably? (gh)

**POLAND** R. Warsaw (BBCMS 5/76) 1600-1630 Eu 9540 7285 2000-2030 Af 15120 11840 0630-0700 Eu 9675 9540 7285 7125 6095 2030-2100 Eu 9540 7285 3955 1200-1230 9540 7285 Eu 1630-1700 Af 15275 11840 2230-2300 Eu 9540 7285 6135 5995 / 1230-1300 Af 15275 15120 1830-1900 Eu 9540 7285 0200-0230 (15120 11840 9675 11840 9540 7125 6095 0300-0330) NAm (7270 6135 6095

**PHILIPPINES** R Veritas deserves a medal - hasn't changed freq for over a month! as of 7/6, still at 0100-0200 on 11725 15280; 1400-1500 11725 9610 (Gib Junqua) The 1330 transmission is no longer in English but Sinhala (Victor Goonetilleke, Sri Lanka, in UADX 6/26, tnx: gh) And is testing at 0030. Now also in Viet, Indo, Thai and plan to add Chinese, Japanese, Tamil, Telugu, Malayalam, Burmese, Korean (SWNS 7/76) We digress (gh) FBEC broadcasts to NAm at 0800-1000 11920, 1100-1130 7225, 2330-2400 15440, 2345-0100 (R RSA DX 7/21 via gh) News to me; don't think intended for us, and the receivables, fortuitous (gh) **PAKISTAN**: next page

**PAPUA NEW GUINEA** (Cf July QRL) NBC heard \*0700 on 4890; from 0530 on 9520 (David Snyder, NY)

**NIGERIA** VON 7/4 thru Sept changed 0555-0735 xmsn for Af/Eu to 0645-0835, 7275 and 15120. Nigerian nx 0700, 0830; World News 0800; Nigerian Press Review 0730; Commentary 0810; at 0825 a preview of 1530 and 1800 pgms (BBCMS) 0600 on 7275 was best chance for NAm (gh)

(MORE ENGLISH) PAKISTAN RP sked in QRL checks except 1350 and 1445 are shown as all-Urdu. Additional xmsns: 0340-0345 21590 17830 15325; 0530-0540 and 0800-0815 on 17830 17750 15520 15325 15115 11672; 0930-0935 17750 15325; 1115-1315 part English 17745 15220; 1815-1820 9660 11672 (BBCMS 5/76 per RP) Also I recall hearing somewhere that time of 0000 xmsn changed (gh)

NEW ZEALAND RNZ sked to Pacific: 1800-2000 6105, 2015-0050 11960; 0100-0450 11705; 0500-1030 6105; other xmtz 1800-2215 9655, 2230-0150 15380, 0200-0700 9585; to Australia 0730-1030 on 6105 (Arthur Cushman?, in broadcast SCIX 7/13, not printed, via gh) So 2 xmtz on 6105 at 0730-1030, for total of 15 kw (NZDX Times via RA DX 7/4) Never mentioned in these skeds is the special sports BC GMT Sunday hrd here 7/18 0314-0330 part on 15130 11705 (gh)

MOZAMBIQUE R Mozambique at 1800 on 3210 3265 4925 6115 9620 11820 (WRTH Newsletter via Leon Tannenwald, TBDCX, via David Snyder, ELB editor, 1137 E 12th, Brooklyn NY 11230) New thing.

MALTA Complete DW J76: 0130-0150 on 11865 9565 (sic, think error -gh) and 6100; 1720-1750 on 17875 (BBCMS 6/76 per DW) So all other DW English from some other site, till 9/5 (gh)

MALAYSIA VOM announced that from 6/28 pgn at 0625-0855 would be on 15290 9750 (BBCMS 7/1)

LIBERIA VOA-12000 at 1600-1800 is Monrovia-2, ex-11860. Waldroit, perhaps political freq change as Moscow already on 12000 from 1700 (Alan Thompson, UK, NU 7/17) First instance I know of one of VOA's own relay sites openly operating out of band; first of many? (gh)

KOREA NORTH RP 1000-1100 now on 9768x (Junqua) Also for 1200 pgn: Also new at 1000 is 7203, officially 7205 (Isao Ugusa, Japan) Also hrd on 9768 at 1300 (Craig Tyson, Wembley, W.A.)

IVORY COAST Does not operate in English on Sundays (David Snyder, NY) Cf QRL, 1845-2000 (gh)

ITALY Gamma Radio has added English IDs; 24h on 6208.5 (via Mike Barraclough, UK, SWNS 7/6)

GREENLAND Gothaab Radiotelephone has strangest test tape in Danish and English, including facts on Greenland's geography, population, etc. Really qualifies as a SWBC; noted around 14900 around 1845 on USB (SWNS 7/76) I doubt the NASWA GIG will be convinced... (gh)

GERMANY WEST DW Complete J76

0600-0630	15275	11905	11765	1200-1245	21600	17875
0120-0220	11945	9520	7285	9700	9615	1715-1745
	6065	7210		1750	15275	11850
0130-0150	9605	9565	6040	0930-1030	17800	17855
0430-0515	9765	7150	5990		9650	17780
0530-0550	9545	6185	6100	1045-1115	21600	21500
					17875	2100-2200
					17765	9765
						7130
						(BBC MS 6/76 per DW)

FINLAND Already 7/4 changed English times planned for 9/5, to end conflict with R. Sweden. 1330-1400 11755, 250kw, 800/PB; 15110 100kw 3050/NAm. 1430-1500 6120 15kw 2300/NEU; 11755 250kw 1400/SEU/NE; 15110 100kw 3050/NAm. 1900-1930 11755 250kw 1700/SEU/NE; 15110 100kw 2340/WBU/WAF. 2100-2130 9550 100kw 2240 WBU/WAF; 11755 250kw 1900/SEU/Naf (R. Finland)

ETHIOPIA ETBF J76 0530-0610 11800 1330-1345 11885 1755-1825 9705 1945-2030 11910 0400-0425 7165 1315-1345 15250 1655-1710 6015 1830-1910 7145 (WRTHNL via Snyder)

CHINA R Peking new eqs, 6994 at 1200-1255; 7175 at 1300-1355 (Mike Willis, Victoria)

CANADA RCI Armed Forces svc noted on modified sked 7/17 1625-1641 on 17820 15325 (in French to 1700), also announcing 1145 and 1800; still hrd at 2200, however. Could 1800 have been in EDT by mistake? Yes, it could (gh)

CAMEROON R. Yaounde moved up 0530 English to 0512 7/1, but not 7/5 on 4972 (Pitt McNeil, DC in TDKN) Also 6/19 0506-0520, on 4970 not 4972½ (Richard Schwartz, DE, SPEEDGRAM)

BURMA BBS now also at 0700-0730 on 9730, news and request mx 6/20 (Gib Junqua, Japan)

BULGARIA R Sofia 0400-0430 9700 1930-2000 9700 6070 (BBCMS 5/76) 2130-2200 9700 0000-0100 9700 1905-1930 17825 15310 2105-2130 17825 15380 15310 11765 2205-2230 9560 new

BANGLADESH Additional to QRL: 0445-0515 also 21685; 1115-1145 to Nepal 7150 6015; 1815-1915 11970 9550 (BBCMS 5/76 per R. Bangladesh)

AUSTRALIA A stn not listed in WRTHV is VL3RT, 5370. Royal Melbourne Institute of Technology, Mon-Fri 0000-0500 during school terms, for correspondence students; address is Latrobe St., Melbourne (Hedley Charles, Burnie, Tasmania, ADXN 6/75) It is on 5250 at 0105-0520, and address is 410 Queen Street (Robert Hanner, Victoria, direct) Last I heard, VL3RT was on 5266.6 to avoid the Alice Springs School of the Air on 5370 (Robert Hanner, ADXN 6/76) ?? (gh)

At RA-Carnarvon only the 250kw is on due to industrial dispute; 7215 at 1500-1730 therefore Shepparton, not Carnarvon; also 11845 ex-11835 to Africa from Shepp 0400-0530 (Hanner) 15415 Carnarvon 0030-0800 has been adjusted to 15410 (BBCMS 6/8) More in Program News (gh)

ANGOLA RNA 7/1 pgn summary gave French 1130-1200, no mention of English (BBCMS)

LAST MINUTE ITEMS & MISSORTS AFARS & ISSAS 4780 sked 0300-0600 & 0900-2000 Mon-Sat; 0500-0900 only on Sundays. Programs in Afar, Somali, Arabic, French; on MW 1169 only (BBCMS)

SAUDI ARABIA Rlyd R Arabic HS freq changes: 1535-2300 7110 ex-7190; 0330-2300 5998 ex-5990

USSR R. Moscow's Russian to Western Sector of Arctic and Antarctica 1530-1600 Mon & Thu is on 9630 ex-11760; 9490 remains (BBCMS 7/15) "Moscow's chief organ of anti-Chinese broadcast propaganda is Radio Peace and Progress - known to jokers in the Soviet capital as 'Radio P'es and Progress'..." ("Traveller's Tales" column in 7/9 Far Eastern Economic Review, via Gib Junqua) Two taboo subjects were dealt with in R. Moscow's 7/23 DX program hosted by Paul Kuznetsov: jamming, and harmonics; the former, very briefly, and the latter at some length, responding to questions from American listeners (gh) GLANDESTINE Bizim Radio sked in Turkish on 9255v 0500-0550 1050-1115 1640-1705 1740-1810 1910-1925; 9500v 1015-1045 1445-1515; 5215; 2000-2030 2030-2100; 6200 2005-2020 2120-2155, believed from GDR and Romania (BBCMS 6/75)

Voice of Peace 1540 is in Israeli waters, not International (Isrneli SCIX 7/20)

**PROGRAM NEWS AUSTRALIA** You might think RA's transmission sked is complete as it shows Saturday & Sunday variations, but one transmission is never included, the hinted at by the early Friday close of 15320 to NAM: "Calling Antarctica". The number of Australians wintering over in Antarctica cannot be very large, so this program no doubt has one of the smallest possible target audiences. Fortunately, it's not hard for us to hear, if we want to. 15320 closed 7/23 at 0240, and at 0247 the transmitter carrier appeared on 15290; on the BFO I could tell the frequency varied slightly as it was adjusted. Regular RA IS began at 0255, and the program ran 0300-0330: mostly music requests, with a woman compere. Now that NAM and other regions have been denied programs designed for them, "Calling Antarctica" becomes the only departure in standard English from RA's general service. This date, reception was hindered by a low het on the low side, and a higher-pitched one on the high side, perhaps from RHC-15230. The closing music at 0328 was "Dixie"; now, that's way down south, hi. Played IS and off promptly at 0330 after announcing a repeat at 0400 on the 19mb, and 0915 on 49m. Since the xmtx is not needed until 0400 for Africa, I cannot understand why NAM needs to be cut 20 min early instead of running "CA" at 0315-0345. This xmtx is 100 kw, but the 0400-0430 repeat is on 15240, which is only 10kw, and seems to stay on its 110° beam to the South Pacific, widely missing Antarctica; unlike 15290 which is a special weekly activation, 15240 is on daily 2230-0730 anyway. At 0430 I expected it to rejoin the GS, but instead there was an unscheduled French pga until 0445 rejoin (cf LN-1), maybe also for Antarcticans, certainly not Aussies; helping out some French-speaking country not so well-positioned to reach Antarctica, like Belgium? I couldn't tell. Last year the 0915 repeat was on 6005; its 108° beam is even further off Antarctica, however (gh)

**CANADA** As announced on 7/8 the "As It Happens Summer Playhouse" final half hour 2330-2400 (more or less) on 6040 9625 11720 featured old-time radio programs (allowing, as is also done round Christmas, the AIH news staff to worry about only 56 instead of 86 mins to fill). Namely, Green Hornet on Mon; (X - 1) Tue; Boston Blackie, Wed; Inner Sanctum, Thu; various programs, Fri. Olympics interrupted, but probably resumed in August (gh)

**CUBA** RHC's English programs, first four Mon-Sat are: Newscast, Editorial, Spotlight on Latin America, From the Land of Music. Followed Mon by Tricontinental Report, LAm Songs, Socialism; the New World. Tue Voices of Revolution, Tempo, The Cuban Story. Wed same as Mon minus T.R.; Thu Tempo, Marxist Review. Fri as Mon except Cuba and the World stand T.R. Sat Cuban Culture, LAm Songs, Cuba; the 18th Year. Sundays: This Week in the News, Cuban Profile, From the Land of Music, P.O. Box 7026, Musical Interlude, Philately in Cuba. (John Kleinerman, Cockeysville MD) Has anyone figured out how they juggle these into xmins of different lengths; anyone willing to monitor for the exact times of each? (gh)

**ECUADOR** Virtually every HCJB program has an evangelistic angle, overt or covert, but one which might not be "Música del Ecuador" in the English service, sked Fri 0430-0445 6095 9560 11915; Sat 0715-0730 11875 9760 11915 9745 6130. Blurb says: "Haunting melodies, distinctive instruments, and an insight into their background get you acquainted with the music and musicians of Ecuador" (gh)

**EGYPT** R Cairo's Euro svc usually makes it to NAM even when its NAM svc does not. On 9805: Daily: 2200 Oriental Music, 2215 News & Commentary; 2313-2315\* News Headlines. Mon: 2205 Egyptian Woman, 2230 Light Music, 2235 Listeners Club, 2300 Cultural Talk. Tue: 2205 Lighter Side of the News, 2225 Spotlight on the ME, 2235 Cairo Magazine, 2250 Arabic Poetry, 2300 Songs & Music. Wed: 2205 Quistime-I, 2225 Palestine in a Week, 2230 Quistime-II, 2235 Light Music, 2240 Arabic Music, 2255 Radio Guest. Thu: 2205 The Egyptian Novel, 2230 Arabic Song, 2235 Variation on a Theme, 2250 Science in Egypt; 2255 Come to the Theatre. Fri 2205 Here & There, 2230 Arabic Song, 2235 Listeners Club, 2300 Palestine: Land & People. Sat: 2205 Meeting in Cairo, 2225 Arab Press Review, 2235 Music around the World, 2250 A Scene. From Egypt 2300 Stamp Collectors Club. Sun: 2205 and 2230 With the Listeners, 2255 This week in History, 2305 Arabic Songs & Music. (via John Kleinerman, MD, 7/19)

**HUNGARY** R Budapest's "Report" Fri 1042 1212 1442 2142, Sat 0212 deals with the ecology (actually ecosystem) the word is always misused these days -gh) of Lake Balaton, 8/20-21, and Papiika Technology, 8/27-28 (gh)

**NETHERLANDS** Those interested in linguistic aspects of the Spanish language should tune in "Las Letras y los Días" with Dr. Carlos Martín, third-from-last item on RN's Thursday Spanish programmes (gh)

**NIGERIA** John Moritz forwards a detailed look at VON pgms, but we are foiled by retiming (gh)

**SEYCHELLES** (Cf July LN-9) "Liberation from Leprosy" is a really excellent program. I learned that the common cold is much more contagious than leprosy and that a person with one is more dangerous to a leper than is a leper to a person with a cold. (Gib Junqua, Japan)

**UKRAINE** R Kiev's pgms feature both international and home news, plus features spotlighting aspects of life in the Ukraine, such as Ukrainian Panorama, Tue & Fri; Kiev Mailbag, Sat; Music from Ukraine, Sundays. (John Moritz, Jr., Youngstown OH)

**FAVORITES** Who the hell wants to hear "Samantha3" all the time on "His & Hers"; and I can do without all these awful Pop Club and BBC Request music shows; I much prefer the local music on Malaysians and Indonesians, and VOP's "Musica Filipina". I also get a big charge out of hearing local weather for such as Burma and the Torres Straits, and out of Kuwait announcing their daily list of drugstores on allnight duty, with their addresses! (Gib Junqua, Japan)

This is an exhaustive list, including any program calling itself "DX"; listeners can judge for themselves which are worthwhile, or consult LN reviews. Unless specified, language is English only. Underlined letters identify other langs. Underlined freqs are those currently well heard in ENAm. Underlined one-digit numbers show week of month when program appears: When preceded by \*, week of month refers to previous GMT day (\*4 on Wed would read: "after fourth Tuesday"). Times vary, but we try to show earliest known start; when exact time is not yet known, maximum frame indicated by / rather than -. The low MW and FM DX programs are included. To save space, previous entries are referred to when freqs match; such programs are not necessarily identical. Corrections and additions are most welcome! Eng times GMT SUNDAY

0007-0018 RTVE <u>S</u> 15365 15125 11775 9520 9260 11945	-1850 RSA <u>F</u> 3995 4875 1853-1858 NHK 9605 11960 1900/1930 Sofia <u>F</u> 1 9700	11850 11735 9665 9635 9600 7205 7180 6020 11690 0230-0300 HGJB 9560 11915 0313-0327 Kiev <u>1</u> 15210 12050 9635 9610 7390 7205 7150 6020 11790
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1330-1344 BBC 1322 1410 5975  
 6195 1088 9410 9740 9750 11750  
 12095 15070 15310 15400 15420  
 17075 17885 21710  
 1947- RA J 9515 11810  
 1515-1530 Bud G as Tuesday  
 1632-1647 RSA 21535 11900 4875  
 1730/1830 Moskau G 11765 9650  
 7320 7230 5925 592  
 1900- DLF 1268  
 1900/1930 Prag G 1,3 1286 6055  
 2000/2030 Prag 7345 5930  
 2015- Buch 7195 6150  
 2045- DLF Sw 1268  
 2115- Buch 7195 5990  
 2130/2200 Prag 6055 1286  
 2132-2147 RSA 9585 5980 4875  
 2230-2245 VOT 9515 11880  
 2302-2317 RSA 11890 9585 5980  
 2315-2329 BBC 1088 5975 6055  
 6175 6195 7120 7130 7185 9410  
 9510 9570 9580 9915 11750  
 11780 11955 15260 15435 7325  
**GMT THURSDAY \*\*\*\*\***  
 0045-0100 TWR 11925  
 0145-0200 HCJB S irr. 11960  
 0217-0223 Buch see LN-5  
 0230-0300 HCJB 9560 11915  
 0318-0324 Bud as Wed 0400  
 0417-0423 Buch see LN-5  
 0500-0503 KDMN 720  
 0647-0722 RN 11730  
 0817-0852 RN 9715  
 0915-0930 NSB J 3925 6055 9595  
 0930-1000 HCJB 6130 9745  
 0947-1022 RN 7240 7210 6045 5955  
 1048- Bud as Sunday  
 1218- Bud as Wednesday  
 -1300 RSA F 21535 15220  
 11900  
 1417-1452 RN 5955 6045 11740  
 15415 17810 21480  
 1435-1443 RSA 21535 15220 11900  
 1448- Bud 7215 9585 11910  
 15160 17785 21525  
 1515-1530 Bud I as Tuesday  
 1530/1600 War Fin 2 7125 6135  
 1600/1630 War Sw 3955 5995 \*1502  
 -1745 RSA Du 11900 9585  
 1800/1830 War Sw as 1600  
 -1845 RSA G 11775 9585  
 1847-1922 RN 17700 11730 6020  
 1900/1930 Prag G 1 6055 1285  
 2000-2030 HCJB 17780 15300  
 2017-2052 RN 11730  
 2130/2200 RTB F ??  
 2147-2222 Bud 5965 7180 7200  
 9655 11910 15415 17780  
 2230-2245 VOT 9515 11880  
 2315-2325 Moscov 17720 15210  
 15100 12050 11870 11750 11735  
**GMT FRIDAY \*\*\*\*\***  
 0015-0025 Moscov as 2315  
 0141-0148 Prag 11990 9630 9540  
 7345 5930  
 0217-0252 RN 6165  
 0218-0224 Bud as Wed 0400  
 0315-0325 Moscov 9500 9530  
 9685 9700  
 0741-0748 Prag as 0141

0745-0755 Moscov 15210 15100  
 12050 11870 11690 9710  
 0400-0415 Bud S as Wed  
 0500-0535 RN 6165 9715  
 0515-0525 Moscov as 0745  
 0530/0600 HCJB Sw 9760 6130  
 0715-0725 Moscov as 0745  
 0915-0930 NSB J 3925 6055 9595  
 1130-1145 HCJB J/E 6075 9715  
 1318-1348 RN S 5955 6045 7210  
 11960  
 1515-1530 Bud as Tuesday  
 1945-1955 Sofia 9700 6070  
 1945- DLF Dan 1268  
 2000/2100 Moskau G 7320 7240  
 6010 5925 1322  
 2000/2030 War Fin \*2 6135 5995  
 3955 1502  
 2015- Buch 7195 6150  
 2040-2055 RA Club 9540 9580  
 9730 11725  
 2048-2118 RN S 9715 6085 6020  
 2049-2055 ORF F alt 6155 9555  
 11860 15345  
 2100-2114 BBC 638 1322 3989  
 5975 6180 7120 7185 9410  
 9580 11750 12095 15070 15260  
 2100/2130 Buch 7195 5990  
 2130/2200 HCJB Sw 15300 11845  
 2140-2150 RNB 11780  
 2145-2155 Sofia 9700 6070  
 2145- Port G 6025 9740  
 2200-2215 ABC Club 11880 6150  
 2220-2226 Bud S 17710 15415  
 11910 9655 7150 5965  
 2218-2248 RN S 11950 6085  
 2230-2245 VOT 9515 11880  
 2320-2326 Bud S 17710 15220  
 11910 9833 7215  
 2348-2418 Sat RN S 15320  
 11845 11730 6020  
**GMT SATURDAY \*\*\*\*\***  
 0015-0025 Sofia 9700  
 0020-0026 Bud S as 2320  
 0118-0148 RN S 6020  
 0119-0125 ORF F alt 6155 9770  
 0120-0126 Bud S as 2320 +9585  
 0217-0223 Buch see LN-5  
 0240-0255 RA Club as Sunday  
 0248-0318 RN S 2520  
 0400-0415 Bud as Wednesday  
 0415-0425 Sofia 9700  
 0417-0423 Buch see LN-5  
 0418-0448 RN S 2520  
 0610-0629 HCJB G 9760 6130  
 0707-0729 SBC 2,4 3985 6165  
 9535 5990 11775 15305 17840  
 0710-0715 NHK G 15325 15430  
 0750-0800 DW G/E 2 7285 9735  
 11795 17845 21560  
 0819-0825 ORF F 6155 15280  
 alt weeks 15410 17810  
 0840-0855 RA Club as Sun  
 0850-0900 DW G/E 2 6075 9545  
 0900-0930 NSB J 3925 6055  
 0907-0922 SBC 2,4 as 0707  
 0930-1000 HCJB 6130 9745  
 0940-0955 TWR 1:G, rest E  
 9640  
 1000/1100 Moskau G 263 9450  
 9745 11745 11870 15260

1107-1129 SBC 2,4 3985 6165  
 9535 15140 15430 17830 21520  
 1150-1200 DW G/E 2 11795  
 15225 17845  
 1200/1230 Buch G 11775 9690  
 1207-1222 TWR 11815  
 1250-1300 DW G/E 2 6075 9545  
 1322-1344 SBC 2,4 3985 6165  
 9535 15140 15430 17830 11775  
 21520  
 1330-1400 ORF G 17765 9770  
 6155  
 1400-1415 Bud G 17785 15160  
 11910 9585 7215 7155 6025  
 1340  
 1440-1455 RA Club as Sunday  
 1500-1515 TWR 1:G rest E 7245  
 1537-1559 SBC 3985 6165 9535  
 11870 15430 17830  
 1545-1600 SDR G 6030 every 4  
 weeks: 8/14 9/11 etc  
 1550-1600 DW G/E 2 1570 9655  
 11765 11795 15275  
 1632-1647 RSA 21535 11900  
 4875  
 1650-1700 DW G/E 2 6075 9545  
 1726-1742 RCI G 15325 17820  
 7235 5995  
 -1745 RSA Du 11900 9585  
 1751-1757 SCDX F 15240  
 1810-1815 NHK G 9605 11960  
 1826-1842 RCI G 809 9020  
 1840-1859 HCJB G 15310 17780  
 -1845 SA G 11775 9585  
 1921-1927 SCDX F 6065  
 1937-1955 RCI F 17820 15325  
 11855 11845 9745  
 1950-2000 DW G/E 2 3996 6160  
 1715 9640 9735 11765 11795  
 2000-2030 HCJB 15300 17780  
 2000/2030 RNB G 11780  
 2040-2050 RA as Friday  
 2045- DLF Sw 1268  
 2110-2129 HCJB G 17780 15300  
 11845  
 2107-2129 SBC 2,4 3985 6165  
 9535 9590 11720 11870 15305  
 2132-2147 RSA 9585 5980 4875  
 2200-2210 ABC 6150 11880  
 2221-2227 SCDX F 9605 11705  
 2230-2245 VOT 9515 11880  
 2302-2317 RSA 11890 9585 5980  
 2308-2322 RAE S alt wks 11710  
 2350-2400 DW G/E 2 3995 6145  
 9700 9735 11795 15410

**ARGENTINA** RAE's new Spanish DX show is well-done, even real tips, tho too much SCDX lifts. Next one is 8/14-15 (gh)  
**Ecuador** Try HCJB's secular Ger. DX pgn Sats, outside produced by ADDX; 7/24 had long nostalgic tape of WNYW IDs in Eng(gh)  
**GERMANY EAST** I'm unable to locate alleged RFI DX; help? (gh)  
**NETHERLANDS** Hear a tape of BER-MEDUSA's ZSM-FM on my 8/19-20 DX Jukebox report. Espacio DXista has new host, Jorge Montenegro & more mx: harmonics 7/31.8/7(gh)

**PUBLICATIONS** DOWN UNDER DX SURVEY #5 is now available, and we can recommend it as highly as the previous issues, for those interested in a thorough survey of Indonesian stations above 3400 kHz, Indos and others below 3400 kHz. Also very good articles on broadcasting in Timor, Mongolia, New Hebrides, and much more packed into 14 pages: 17 Stevenson St, Kew, Vic, Aust. 3101. Price is 3 IRCs or 40¢ in mint Aus. stamps in A/NZ; 5 IRCs elsewhere, airmail. Anyone may order but "Sluck DXers need not apply" for membership. (gh)

TROPICAL BAND SURVEY, 4th ed., 1976 now available from DSWGI, Box 50, DX-2620 Albertslund, Denmark, for 5 IRCs (8¢ if by air); covers 2000-5900 kHz (RADX 7/17)

ANARC CLUB LIST OF PUBLICATIONS AND SERVICES is a good concise summary of publications and other useful items available to non-members of other clubs. Just send a SASE #10, or 3 IRCs if overseas, to ANARC, 557 North Madison Avenue, Pasadena CA 91101 (gh)

SUNRISE/SUNSET TIMES for over 260 sites WORLDWIDE is a completely computer-revised aggregation of 2 previous publications. Shows SS/SR times on 15th of each month and Lat & Long by which computed, along with explanation of how to figure other sites. 16 crammed pages, \$1 in Nam, 6 IRCs elsewhere, from SPEEDX, Box E, Elsinore CA 92530 (gh)

U.S. WAR RESISTERS IN SWEDEN, article by Charles Peterson in 7/18 Parade dealt with one William Schiller, 33, draft resister from Chicago, now a 'newsmen' for Swedish Broadcasting Corp. Haven't we heard Bill Schiller announcing SCDX and other stuff on Radio Sweden? (gh)

Newsweek International recently had a lengthy column on Radio Hanoi (Junqua) /Anybody spot this in the domestic edition? Just when, Gib? (gh)

NATIONAL ANTHEMS OF THE WORLD, edited by Shaw, 1975 edition now out (Robert Hanner, Vic.) Groves Music Dictionary has a good article on this, with first few notes, tho somewhat outdated. As for N.A. records, try Everest 3239 or MFP (EMI) 2M 046-15828. Does anyone know of others? The EMI one is (22) "Hymnes Nationaux," all Europe & vicinity (gh) Willis)

AFRICA SOUTH OF THE EQUATOR yearbook is of special interest to DXers, for langs etc (Mike)

**IN MY OPINION** Gerry Wood, Radio RSA: "The remark directed at Radio RSA, May LN-5 is definitely unwarranted. Radio RSA has a reputation for accurate and fair programming reflected in the fact that Julius Nyerere has Radio RSA's news programs recorded each day. If the "white bird" remark had been made on any other station it would have passed unnoticed. No country is perfect in this mad world of today - and I think pseudo political remarks should not appear in dx bulletins." gh: "It was more interesting to have the 'white bird' item and your rebuttal, than to have neither. Besides, the raison d'être of most ISWBC stations, including Radio RSA and VOA, is political, unfortunately."

David Walcutt, Chicago IL: "There are very few stations that seem to appreciate their own context within a competitive environment of other broadcasters. The VOA is really weak on this point, I feel; sometimes they seem to think they are the only station people listen to. ... /re RTVE's English DX pgm/: So someone finally came out and said it: listeners exist to serve the stations, not the stations the listeners... I think these stations should be held accountable more often for some of the stuff they put out. What's with these turkeys from Spain, bad translation or just arrogance?" gh: "Quite a lot of both."

**DON'T YOU BELIEVE** ...that Spain is the only "Dexian" mispronouncer; reminds me of the YL on VOP-Manila's "Mailbag" who constantly says "Dixers" and "Dixing". (Gib Junqua) Problem derives from Spanish speakers' attempt to pronounce "DX" as in English instead of "De Equis" which is the way S-S hams say it (gh)

...that you can drop in by yourself for a Vatican Radio visit. They want tour groups (Wooten)

...RA's 4/18 DX show in which TIKE was taken to be a word, not a call sign in C.R. (gh)

...that N. Moscow's NAS announcers are great linguists. After talking with some of them on a visit there, I think they're defectors, adopting Russian names (Norris Dryer, Knoxville TN)

...that "Radio OAS" is the "Latin American Service of VOA" as on R. Budapest DX 7/3. Their DX program is so apolitical I'll chalk this up to ignorance rather than a dig at us, hi (gh)

...that there's no p. 29 in July FRENDX; that WRTH was not a Q.R.L. source (gh)

...that the EDXC Reports on DX Juke Box should qualify as a separate station, as in Australian DX News 6/76: If so, I proclaim that the North American DX Report is, too! (gh)

...that Irian Jaya is pronounced "Iranian Yaya" as on SBC news 7/10 1315 The Iranian Yaya is a Khan and has no connection at all with New Guinea (gh)

...that there are any SW xtrns at Lakihegy, Hungary, despite WRTH listings (R. Budapest DX 6/26 replying to a question from Gerry Dexter, via gh) They added that 9833 is 250kw to Nam.

...that Munich-3980 is not 8 kw. Their four 100 kw units are all in use on other frequencies when 3980 is on, per the VOA schedule (Bob Underdown, Siloam Springs AR)

...the item on McIntire's Vietnamese village in Florida. Before it was ever completed near the Cape several months ago, it mysteriously burned to the ground. (Terry Krüger, Casselberry)

...that WYFR is not deliberately serving a domestic audience. Their 6/76 letter to "Fellow Ambassador" quoted a letter from a prisoner in South Carolina (gh)

...the transmitter efficiency figures in Bethany, July LN-1. The power quoted is the RF carrier output, not the input power. So when the figure of 60% efficient is given it means for 250 kW carrier output the input power required is 417 kW I have never seen an exception to this (David Mackee, Baltimore MD) And, besides, 60% of 250 is 150, not 175. hi (gh)/A Thom...

...that Radio Euzkadi has any connection with the radical left ETA group (SWNS 6/76)/psom:

...that BRC-7325 to USA will carry "Special American" in reprisal for VOA's "Special English"

...that there's a country called "Freedom" per FBIS, nice as that would be... 73, Glenn

NASWA AWARDS PROGRAM REPORT

The following report gives all awards issued during the period 1 April 1976 through 30 June 1976. All awards are listed in chronological order of issue.

African CONTINENTAL DXER

Bill Whitacre

AFRICAN CONTINENTAL DXPERT

Al Mayer  
John Sgrulletta

EUROPEAN CONTINENTAL DXER

Timothy Noonan  
John B. Vockeroth  
Lou and Elinor Leistner  
Jon H. Greenburg  
William G. Freeland  
Bruce Barker  
Roger DeRoy  
Jim Meehan

European CONTINENTAL DXPERT

Alan Mayer  
Dan Henderson  
Richard T. Pistek  
John Sgrulletta

SOUTH AMERICAN CONTINENTAL DXER

Pitt McNeil  
Andrew C. Robins  
Joey Nonnast

SOUTH AMERICAN CONTINENTAL DXPERT

Alan Mayer  
Dan Henderson  
Richard T. Pistek

NORTH AMERICAN CONTINENTAL DXER

Alan Mayer  
Andy Robins  
Pitt McNeil  
Robert C. Wiles

DXER DE PACIFICA

Alan Mayer  
John J. Moritz  
Bill Whitacre

ASIAN CONTINENTAL DXER

Alan Mayer

WORLD WIDE DXER

Timothy P. Noonan  
Robert F. Leamy, Jr.  
John B. Vockeroth  
Richard D. Lucas, Jr.  
Jon H. Greenburg  
Lou and Elinor Leistner  
James A. Conrad  
George Clare  
John Huniwell  
Gerald Bishop  
Jim Meehan

DX CENTURION

William G. Freeland  
Jon H. Greenburg  
John C. Herkimer

SENIOR DX CENTURION

Alan Mayer  
Bro. Jim Zabransky SVD

MASTER DX CENTURION

Richard T. Pistek

ALL CONTINENT QRP DXER

John Moritz Jr. 50 KW  
Andrew C. Robins 50 KW  
Alan Mayer 25 KW  
Richard Schwartz 50 KW  
Joey Nonnast 25 KW  
Lloyd Jay Kantor 50 KW

SENIOR NIGERIAN DXER

Pitt McNeil

MASTER NIGERIAN DXER

Joe Dileo  
Alan Mayer

SOVIET SPHERE DXER

Alan Mayer

ORTF DXER

Alan Mayer

EMISSORA REGIONAL DXER

Alan Mayer

ECCLESIASTIC DXER

Kurt C. Cox  
Tom Overcamp  
Alan Mayer  
Andrew Robins  
Joey Nonnast  
Ira E. Teitelbaum

MAPLE LEAF DXER

Alan Mayer

VOA DXER

John J. Moritz, Jr.  
Alan Mayer  
John Sgrulletta  
Gerry Bishop  
Ira E. Teitelbaum

SENIOR BRITISH COMMONWEALTH DXER

Dan Henderson  
Alan Mayer  
John J. Moritz, Jr.

MASTER BRITISH COMMONWEALTH DXER

Dan Henderson  
Alan Mayer

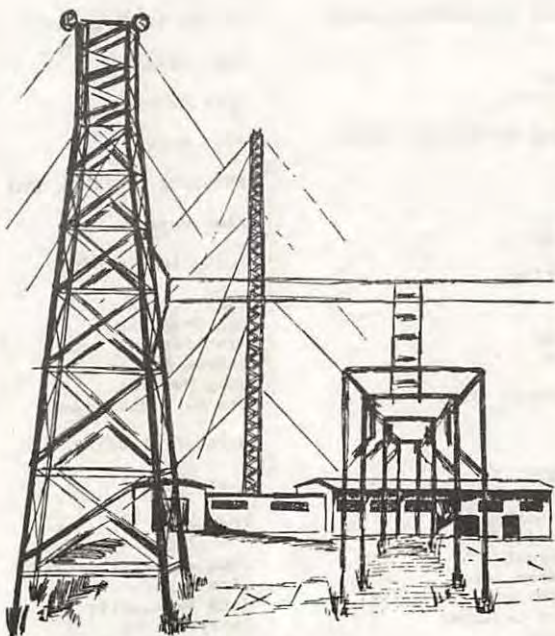
ARAB WORLD DXER

Alan Mayer  
Dan Henderson

One plea to those DXers sending stamps---they must be no larger than 13¢ in denomination--I can't use them otherwise. Thanks a lot and I hope to hear from many of you the next quarter. 73 *Dan Henderson*  
Dan Henderson

That completes the 2nd quarter statistic of the Awards committee. All you DXers who qualified--CONGRATULATIONS, for a job well done. I would like to make a few comments regarding ideas/suggestions made during the past 3 months--First of all, I promise never to announce an award without making a joint announcement regarding its qualifications. Also, regarding the VOA transmitter site situation--it's the same for some of the Soviet awards--it can be obtained with some "innovative" reporting--it is also uncertain that the policy will be final--Get those cards and letters flooding George Jacob's office there in Washington.

I do hope to announce a special award for this fall regarding the Tropical Band for all you DXers. I continue to appreciate all the comments and suggestions. Incidentally, when Antarctica becomes a "regular" again, I'll consider a special award for it.



# QSL



## Report

•Editor: William E. Oliver

45 Wildflower Rd., Levittown, PA. 19057

Another "heavy" month. Not much space left for talk except to mention that we have 105 countries including Gabon and, for those of you who are still hoping, one more report from Mexico. All this is topped off by Al Sizer's beautiful catch, Radio Hargeisa in Somali Republic. Forward....

ALBANIA: R. Tirana, 6200/7300, "L'Esprit Revolutionnaire" card w/o freqs in 6 weeks. No rp. (Overcamp-SC).

R. Peking Relay, 7120, card w/o time or date, postcards and nice red/green pennant in 23 days. No rp. (Hall-NY); card w/o site or time in 1 month. No rp. (Overcamp-SC): 9780, card, sked, pin and letter followed by mags and newspapers in 25 days. No rp. (Hancock-AL).

ALGERIA: RTVA, 6145, f/d blue/white card and rpt form in 4 months for FF rpt. No rp. (Vokes-TX): 9685, plain card w/no details and rpt form in 5 months for their rpt form. No rp. (McNeil-DC).

ARGENTINA: RAE, 9690, card w/date and freq on the front in 64 days for 2 IRC's. (Reno-KS); card w/freq only in 112 days for 2 IRC's. (Ihnat-PA).

R. Nacional Mendoza, 6180, letter and sked in 58 days for SS rpt. No pennant available but possible in the future. (Lausevich-WI).

ARMENIAN SSR: R. Yerevan, 11690, plain card w/all data in 4 months by registered mail for 1 IRC and used stamps. (Brown-MJ): 15130, f/d card including site as Vladivostok as requested in 1 year. Card was sent by registered mail. (Barker-TX). Vladivostok? That's Asiatic RSFSR, Bruce. ed. ASCENSION IS: BEC Relay, 9580, f/d card in 20 days. No rp. (Mark-IN).

ASIATIC RSFSR: R. Moscow transmitter site cards received in 3 to 6 weeks by Moss-CA, Barker-TX, Beaudoin-CT, Brown-MJ, Bishop-MT, Hardester-CA, Cain-LA and Moritz-OH for these freqs: Khabarovsk 7150, 11690, 12000, 12050, 15100. Kenga 9720, 11720. Vladivostok 11750. Petropavlovsk-Kamchatsky 9710, 15210, 17720. Cain-LA also received a microscopic pennant for 5 rpts.

AUSTRALIA: R. Australia, cards received as follows: 9560, 19 weeks. No rp. (Cosier-AUST): 9580, 5 1/2 months. No rp. (Gercken-IL, Wala-MJ); 108 days. No rp. (Hancock-AL); card, large Butterfly calendar, skeds and a nice book on Australia in 72 days for 2 IRC's. (Koenig-NJ); card and pennant in 6 months. (Moritz-OH): 6005, 106 days for 1 IRC. (Brindle-PA): 7220, 23 weeks. No rp. (Vockerth-PA): 7220/9515, 72 days. No rp. (Mayer-IL): 7235/9530/7290. 3 months. (Barto-CT): 15240, card on "Calling Antarctica" prgm in 7 1/2 months. No rp. (McNeil-DC): 15320/17795, 5 months. No rp. (Poppin-CA): 15290, 56 days for 2 IRC's. (Hancock-AL): 11780, 27 days for 3 IRC's. (Conrad-IA). Cards were "Crested Parakeet", "Sheep Station", "Grass Tree", "Net Bush", "Cave Painting", "Kangaroo", "Grevillea", "Primrose Orchid" and "Blue Wren".

VLR9-Melbourne, 9680, f/d card and pennant in 29 days for 1 IRC. (Beaudoin-CT).

VW9-Perth, 9610, f/d card in 46 days. No rp. (Poppin-CA). AUSTRIA: ORF, 9770, f/d "Vorarlberg" card, sked and decal in 26 days for 1 IRC. (Rockwood-OH); f/d "Innsbruck" card in 41 days. No rp. (Mark-IN); f/d "Steiermark" card, sked and rpt form in 5 weeks for 1 IRC. (Moss-TX); f/d card, sked and rpt form in 30 days. No rp. (Morrison-KY); f/d silver "Castle" card in 3 weeks for 1 IRC. (Dubrick-IL); f/d "Schoenbrunn Castle" card, decal and tourist and technical info in 20 days. (Koenig-NJ).

BELGIUM: ORU, 9730, card w/o time, sked in 84 days. No rp. (Bishop-MT).

BRAZIL: R. Nacional de Brasilia, 11780, f/d card and sticker in 28 days for 2 IRC's. (Rojewski-WA); f/d card, sked in 1 month for 1 IRC. Note says they aren't sure if pennants will be available. (Vockerth-PA): 6125, card w/wrong freq (11000 kHz!!) in 98 days. (Lausevich-WI).

BRUNEI: R. Brunei, 7215, map card in 10 months after f/up for 2 IRC's. (Barker-TX).

BYELORUSSIAN SSR: R. Moscow via Orsha, 9655, card in 39 days. No rp.

(Oliver-PA). Via Minsk, 11745-Great Britain Svc, f/d card in 58 days for EE rpt. No rp. (Gionet-NB).

CANADA: CBC Northern Svc, 9625, f/d "Polar Bear" card and Spring sked in 61 days. No rp. (Mark-IN).

BEC Relay-Sackville, 6175, no data Thames card, sked, antenna book and World Radio Club info in 36 days for 2 IRC's. (Glazzy-CA).

Deutsche Welle Relay, 6085, f/d "20 Years Deutsche Welle" card in 5 weeks for EE rpt and 1 IRC. (Koenig-NJ).

CHINA: R. Peking, 11945, card w/no time and pennant in 24 days for 1 IRC. (Reno-KS): 9380, card, sked, postcard, pin and pennant in 18 days. No rp.

(Cain-LA); 11685, card, sked and my 5th pennant in 3 months. (Barto-CT); f/d card in 3 weeks. No rp. (Overcamp-SC): 15060, card w/o time in 30 days for 1 IRC. (Macris-MO).

COLOMBIA: La Voz de la Selva, 6170, SS letter from Eduardo Bahoman Horta of the Instituto Colombiano de los Seguros Sociales who confirmed the rpt and sent a one-paseo bill! Received in 4 1/2 weeks for SS rpt and 1 IRC. Letter and envelope feature the station slogan. (Cosier-AUST).

R. Nacional, 9685, card w/date only and freq listed as 9635 in 29 days for SS rpt and 2 IRC's. (Bishop-MT); card in 1 month for SS rpt. V/s Alberto Upegui Acevedo. (Barto-CT): 9630, card in 5 weeks for NASWA SS rpt. No rp. (Cain-LA).

Emisora Nueva Granada, 6160, letter in 3 months. (Barto-CT).

CONGO: RTV Congolaise, 15190, f/d stamped FF form letter in 1 month for Gilfer trilingual form and 1 IRC. (Capobianco-NY); same in 18 days for EE rpt and 2 IRC's. (Reno-KS); same in 28 days for FF rpt, 1 IRC. (Gionet-NB).

COSTA RICA: R. Casino, 5954, f/d card and pennant in 51 days for EE rpt on EE xmsn. No rp. (Morrison-KY); long green card and pennant in 15 days for SS rpt. No rp. (Vokes-TX).

TIPC, 9645, f/d "Mike" card and nice letter giving power as 500 watts in 54 days for EE rpt and 2 IRC's. V/s Mary H. Steele. (Reno-KS); card and pennant in 46 days for 1 IRC. (Hofmann-PA).

CUBA: RHC, 11930, f/d card, sked, prgm guide and letter from Maria Montero Triana in 60 days for 1 IRC. (Glazzy-CA); f/d card and sked in 72 days. No rp. (Gionet-NB): 11870, f/d card in 63 days. No rp. I received a translation of a Castro speech 5 days before the card arrived. It's no secret where the priorities lie! (Mark-IN): 11815, card in 6 weeks. (Barker-TX).

CYPRUS: BEC Relay, 7140, card in 6 weeks for 1 IRC. Also received a letter from Miss V.R. Pressman stating that the relay I heard was carried "on one of the high-powered xmtrs (100 kw)". (Brown-MI): 7250, f/d card listing site and all data as requested in 3 weeks. No rp. (Barker-TX): 15420, no-data Thames card w/"Cyprus" typen on as requested. No rp. (Clare-CA).

CZECHOSLOVAKIA: R. Prague, f/d cards received as follows: 9540, w/DX Club info in 25 days. No rp. (Norby-MN); 3 and 4 weeks for 2 rpts. No rp. (Koenig-NJ): 7345, 24 days for 2 IRC's. (Glazzy-CA); card and 18 slides in 52 days for 1 IRC. (Rockwood-OH); 35 days. No rp. (Bishop-MT); 42 days. No rp. (Meehan-CT); 46 days. No rp. (Wala-MI); 29 days. No rp. (Cohen-NJ): 7345/9540/11990, 1 card and First Day Covers in 1 month for 1 IRC. (Rockwood-OH): 11990/9540, cards and 8 rpt form cards in 22 days. No rp. (Moss-CA).

DENMARK: R. Denmark, 15165, f/d "Radio House Tower" card in 31 days for EE rpt and 2 IRC's. (Rojewski-WA).

DOMINICAN REP: R. Clarin, 4850, SS verie letter w/o time or freq in 90 days for mint stamps. (Hall-NY).

La Voz de la Fuerzas Armadas, 4825, SS letter w/verie statement but no data, card w/freq and large red/white/blue pennant in 19 days for EE rpt and 1 IRC. V/s Fidel T. Baez Berg. (Mayer-IL).

R. Mil, 4930, f/d verie letter w/illegible signature in 26 days for SS rpt and used stamps. They list freq as 4940, but I heard them on 4930! (Moritz-OH).

ECUADOR: R. Quito, 4920, multi-lingual acknowledgement card w/freq only in 167 days for SS rpt and mint stamps. V/s Fernando Pegan. Postage for air-mail - 500 sucres. (Hardester-CA).

HCJB, 9560, f/d "Owl" card, sked and ANDEX info in 26 days. No rp. (Norby-MN); "DX Party Line" card in 27 days for 2 IRC's. (Mark-IN); same in 40 days for 52¢ in US stamps. (Meehan-CT): 11915, f/d "Bread Dolls" card and blue/gold pennant in 30 days for 40¢ in US stamps. (Moss-CA): 11835, same card, photo of skiers and 1976 RR calendar for EE translations of RR broadcast and 1 IRC in 42 days. (Poppin-CA).

EGYPT: R. Cairo, 9475, "Aswan" card in 370 days. No rp. (Mitchell-CA); f/d card in 41 days. No rp. (Crater-KS); no-data "Cairo TV" card in 7 1/2 months. V/s N. Waked. No rp. (Poppin-CA).

ENGLAND: BBC, 7325, no-data Thames card in 18 days. No rp. (Nicolosi-NJ): 7150, same card w/"UK" typed in as requested in 13 days. No rp. (Clare-CA). CBC via Davenport, 7260, "Olympics" card in 2 weeks. (Legge-VA).

ETHIOPIA: ETLF, 11830, f/d card, sked in 67 days. No rp. (Hall-NY); f/d multi-colored scene of ETLF and pennant in 57 days for EE rpt and 1 IRC. (Mayer-IL); f/d red card, sked in 88 days for 1 IRC. (Schneck-MA).  
EUROPEAN RSEFSR: R. Moscow, 7260, f/d card and book on Soviet Sport in 88 days. No rp. (Hall-NY): 17765, f/d card w/o site on African Svc in 72 days. No rp. (Beaudoin-CT): 6070, "Kalinin" card in 40 days. (Rockwood-OH): 9470, f/d "Radio Moskva" card for my own RR rpt on the Home Svc xmsn. A first for me and the only station to reply to my RR rpts to date. Also got EE sked, rpt form and "Thank You" note in 37 days. No rp. (Poppin-CA): 7150, f/d card and "Moscow Mailbag" notice in 4 weeks for some US stamps. (Koenig-NJ).  
 Transmitter site cards received in 1 to 3 months by Cosier-AUST, Legge-VA, Gionet-NB, Barto-CT, Cain-LA and Moritz-OH for these freqs: Gorky 11860. Armavir 9500. Serpukhov 11705, 9790. Riazan 11970, 9720. Moscow 6010, 7280, 9450, 9530. Tula 12000, 7190. Kingisepp 9760. Zhigulevsk 6175.

Radio Station Peace & Progress, 15185, f/d card and sked in 28 days for 1 IRC. Note says they don't have a pennant. (Rockwood-OH): 11900/11950/11845/15505, card in 5 weeks. (Barto-CT).

FINLAND: R. Finland, 6120, card and sked in 3 weeks. No rp. (Cosier-AUST): 15110, f/d card and sked in 14 days for 1 IRC. (Nicolosi-NJ); f/d card in 17 days for 1 IRC. (Crater-KS); f/d card, sked and "Hear Finland booklet in 15 days for 3 IRC's. (Hancock-AL); f/d card, sked and copies of "Hear Finland" in 5 weeks. No rp. (Moss-TX); card w/wrong freq in 15 days. No rp. (McNeil-DC); f/d card, pennant and 2 copies of "Hear Finland" in 26 days for 1 IRC. (Brindle-PA).

FRANCE: RFI, 11930, f/d "L'Arc de Triomphe" card, pennant and sked "vers L'Afrique" in 37 days for FF rpt. No rp. (Poppin-CA): 15125, f/d card in 45 days on my 3rd try. No rp. (Bishop-MT): 17860, f/d card, sked and calendar in 19 days. No rp. (Mark-IN).

GABON: Radiodiff. TV Gabonaise, 3350, letter in 2 months for FF rpt and stamps. V/s Jean Nembé, Le Chef de Centre Emetteur. (Barto-CT).

GALAPAGOS IS: La Voz de Galapagos, 4810, letter in 5 weeks. V/s Padre Edgar Raul Pinto E., Director. (Barto-CT).

GERMANY (E): RBI, 15255, f/d "Berlin Tower" card, sked in 35 days for 2 IRC's. (Rojewski-WA): 9730, f/d card in 33 days. No rp. (Beaudoin-CT); f/d "Stralsund" card in 40 days. No rp. (Cohen-NJ): 9755, f/d "Goethe" card and mags in 4 weeks. No rp. (Brown-MI): 11840, f/d card and letter from Rudi Friedel, NA Dept, in 31 days. No rp. (Brindle-PA): 11825, f/d "Needle Restaurant" card and pleasant letter of thanks from Rudi Friedel who asked what type of songs and music I liked in 46 days. No rp. Postcards of Berlin and copy of "Visite" came under separate cover. (Poppin-CA).

GERMANY (W): Deutsche Welle, 60A0, no-data card and "Hallo, Friend" news letter in 24 days for EE rpt and 1 IRC. (Norby-MN).

Sddeutscher Rundfunk, 6030, big f/d yellow/white/black card and rpt card in 2 months for EE rpt. No rp. (McNeil-DC).

GHANA: GBC, 4915, f/d card and sked in 72 days for 1 IRC. (Hall-NY); card and sked in 6 weeks. (Cain-LA): 6130, f/d card and sked in 12 weeks for 1 IRC. (Brown-MI).

GREECE: V. of Greece (EPT), 9760, f/d card in 30 days. No rp. (Hall-NY); f/d card in 19 days for EE rpt and 2 IRC's. (Macris-MO); f/d card and sked in 7 weeks for 1 IRC. (Vockerth-PA).

GRENADA: R. Grenada, 15105, card with SW/MW sked on it received: 104 days for 2 IRC's. (Gower-IL); 3 months for 1 IRC and used stamps. (Brown-MI); 3 months for 2 IRC's. (Barker-TX); 2 1/2 months for mint stamps and postcard. (McNeil-DC): 14 weeks for EE rpt and mint stamps. (Overcamp-SC); 91 days for 2 IRC's. Power listed as 5 kw. (Conrad-IA); 3 months for 2 IRC's and 2 color portraits of Wheeling. (Wiles-WV); 3 months for 2 IRC's. (Barker-TX).

GUYANA: GBS, 5950, f/d letter with info on station and services in 62 days for EE rpt and 2 IRC's. (Gionet-NB).

HAITI: 4VEH, 11835, card w/girl in 76 days for EE rpt and 2 IRC's. V/s Mrs. Edna Beachy. (Reno-KS); same f/d card in 26 days after f/up for 3 IRC's. (Hancock-AL); f/d card and literature in 109 days for 1 IRC. (Clare-CA).

HONDURAS: R. Suyapa, 6125, card, pennant and friendly SS letter thanking me for my rpt and asking for more in 15 days for SS rpt. No rp. (Vokes-TX).

R. Progreso, 4920, letter and emblem in 15 days. No rp. (Cain-LA).  
HUNGARY: R. Budapest, 9833, f/d card and mags in 53 days. No rp. V/s Mari Sötér. (Sarrazin-CO); f/d card, letter and mags in 31 days. No rp. (Poppin-CA): 7215, f/d card in 5 weeks. No rp. (Brown-MI); f/d card, pennant and

personal letter in 5 weeks for 2 IRC's. Mags came by separate mail. (Koenig-NJ): 6000, f/d card and pennant in 65 days for 1 IRC. (Rockwood-OH); f/d blue card, sked and prgm news in 57 days. No rp. (Mark-IN); f/d orange card in 1 month for 1 IRC. (Dubrick-IL): 6110, card, sked and info in 20 days. No rp. (Nicolosi-NJ).

ICELAND: Reykjavik Radio, 12175, f/d "Scenes from Reykjavik" card in 34 days for EE rpt and 1 IRC. Power - 5 kw. (Gower-IL).

INDIA: AIR, 9625, f/d "Victoria Memorial" card w/wrong freq in 5 months for 1 IRC. (Brown-MI): 9912, f/d "Newar School Painting" card and sked in 4 months. No rp. (Brown-MI).

R. Kashmir-Jammu, 3345, At last! F/d verie letter from S.C. Sharma, Asst. Engineer, in 6 months after 3rd f/up, 14 months after initial reception. (Cosier-AUST).

INDONESIA: V. of Indonesia, 11790, f/d crocodile-textured folder CSL in 7½ months for 1 IRC. Worth the wait! Rpts to "CSL Manager". (Capobianco-NY); multi-colored folder card w/date and freq in 36 weeks for 2 IRC's and a rpt sent by registered mail. My second try. (Wala-MI).

RRI-Pangkal Pinang, SUMATRA, 3385, f/d verie letter w/power as 600 watts in 5 weeks. No rp. V/s M. Amin Soetion (Kepala Stasiun). Who says Kupang is still here, hi? (Cosier-AUST). Don't blame me, Geoff.

IRAN: V. of Iran, 9022, "Kerman TV" card in 20 days for 2 IRC's. Received a note of apology for putting wrong freq on the card. The freq was correct, but they did put on the wrong time. (Rockwood-OH); f/d "Mahabad TV" card and sked in 32 days for EE rpt. No rp. (Poppin-CA).

ISRAEL: IBA, f/d card, skeds and IBA Booklets received by Norby-MN, Brown-MI, Macris-MO, Reno-KS, Koenig-NJ, Poppin-CA and Clare-CA in 6 to 9 weeks for no rp to 2 IRC's on these freqs: 11640, 9815, 7412, 11960, 7395, 9009. ITALY: RAI, 3995, "Vaprio sull'Adda" card in 3 months. No rp. (McNeil-DC): 11810, f/d "Painting" card in 216 days for FF rpt on FF xmsn. No rp. (Gionet-NB): 6010, same f/d card in 77 days. No rp. (Hall-NY).

JAPAN: R. Japan, 7205, card and skeds in 9 days. (Cosier-AUST); card in 3 weeks. No rp. (Cain-LA): 15105, "Noh Mask" card in 16 days. No rp. (Hancock-AL): 11815, card, 3 rot forms, 4 questionnaires and station info in 16 days. No rp. (Morrison-KY). No postcard, Kent? 15300, card w/o time, sked, postcard, R. Japan News and club info in 2 weeks. No rp. (Vockeroth-PA): 9585, card w/o time in 14 days for rot form. No rp. (Macris-MO).

FEN, 11750, f/d card in 22 days. No rp. (Bishop-MT).

NSR, 9595, f/d card and station info in 31 days. No rp. (Bishop-MT).

JORDAN: HSB, 7155, f/d card and EE sked in 2 weeks for EE rpt and 2 IRC's. (Barker-TX).

KAZAKH SSR: R. Moscow SEA Svc via Alma Ata, 15210, f/d card and rot form in 69 days. No rp. (Gionet-NB).

KENYA: V. of Kenya, 4885, f/d aerogramme with statement that this is not Kisumu, but Nairobi. Received in 8 weeks for 1 IRC. (Cosier-AUST).

KIRGHIZ SSR: R. Moscow via Frunze, 9715, f/d FF card in 102 days for FF rpt. No rp. What a surprise!! (Beaudoin-CT).

KOREA (S): KBS, 9640, f/d "Folk Dances" card in 8½ months for EE rpt and 2 IRC's. (Beaudoin-CT): 2510/9600, one card and sked for the two rpts in 14 weeks. No rp. (Cosier-AUST).

KUWAIT: R. Kuwait, 11940, folder card in 4 months. (Barker-TX).

LATVIAN SSR: R. Riga, 5935, card, sked in 2½ months. No rp. (McNeil-DC).

LIBERIA: ELWA, 11945, f/d "Drummer" card, sked and religious pamphlets in 18 months for EE rpt. No rp. (Gionet-NB).

LIBYA: Peoples' Revolution Broadcasting, 6185, EE letter for February reception w/verification statement but no details for stamps and 3 IRC's. V/s B. Buzed. Country #196! (Young-CA); personal letter of verification from Ousim Omar-Abou Zaid in 4 months for EE rpt, used stamps and postcard. In my letter I noted that I enjoyed their music (like Sam Barto), and that I had trouble hearing them and wished they would send me a schedule and, if it was not too much trouble, verify my report. They sent the schedule and also said, among other things, "We verify your report." Love it! (Moritz-OH).

LITHUANIAN SSR: R. Vilnius, 7190, f/d card in 4½ months. (Gercken-IL); f/d card and sked in 47 days. No rp. (Hancock-AL).

LUXEMBOURG: R. Luxembourg, 6090, "Antenna/Coat-of-Arms" card in 31 days. No rp. (Gower-IL); f/d card in 42 days for 3 IRC's. (Hancock-AL); f/d card in 52 days. No rp. (Schulman-NY).

MALAGASY REP: R. Nederland Relay, 11730, f/d "Eddie Startz" card in 31 days. No rp. (Bishop-MT); same card in 32 days. No rp. (Meehan-CT): 11740, same card and sked in 58 days. No rp. (Mark-IN).

MALAYSIA: BBC Relay, 11750, Thames card in 2 months with a letter from Miss

V.R. Pressman states that the move of the BEC Far Eastern Relay Station to Singapore will not commence for many months yet. (Brown-MI): 9740, no-data card w/"Far Eastern Relay" typed on as requested in 39 days. (Clare-CA).

R. Malaysia, 9665, very nice f/d 4-color folder in 14 days. No rp. (Clare-CA): 4985, f/d folder card w/much info on country and sked in 74 days for EE rpt and 1 IRC. (Poppin-CA).

from  
Sam  
Barto

## THE VOICE OF RIGHTEOUSNESS



CHENG SHENG BROADCASTING CORPORATION LTD.  
REPUBLIC OF CHINA

**MALTA:** R. Messias Relay, 9755, letter from Prof. Muller-Markus, Director, in 8 $\frac{1}{2}$  weeks after f/up. (Cosier-AUST).

Deutsche Welle Relay, 6100, f/d DW card w/"Malta" as sender in 151 days for 2 IRC's. (Reno-KS).

R. Malta, 6055, letter in 5 months. V/s Victor Aquilina. (Barto-CT): 6035, f/d letter and brochure on Malta in 3 months for 1 IRC. (Nicolosi-NJ); f/d mimeo letter and 2 tourist brochures in 4 months for rpt to Valetta CTH. No rp. (McNeil-DC): 6055, verie letter for "Malta Calling" in 6 months w/ tourist info. Address is XANDIR MALTA, TELEMALTA CORP. St. Luke Road, Gwardamanga, P.O. Box 82, Malta. (Moritz-OH).

**MEXICO:** R. Mexico, 15385, letter w/o time or freq, survey booklet, sked and tourist info, all in SS, in 192 days for EE letter. No rp. (Brindle-PA).

**MONACO:** TWR, 7135, f/d card, sked, religious info, etc. in 80 days for EE rpt. No rp. (Gionet-NE).

**MOZAMBIQUE:** R. Mozambique, 11820, card w/date, freq and power - 120 kw in 54 days for EE rpt and 2 IRC's. V/s K. Legueira. (Gower-IL): 4865, card in 6 weeks. (Barto-CT).

**NETHERLANDS:** R. Nederland, 11730, f/d "Benelux" and "Parsons" cards in 49 days. No rp. (Norby-MN); f/d card in 60 days. No rp. (Clare-CA); f/d "Eddie Startz" card in 33 days. No rp. (Bishop-MT); 9715, same card in 12 days. No rp. (Brindle-PA).

**NETHERLANDS ANTILLES:** R. Nederland Relay, 6165, f/d "Eddie Startz" card and antenna booklet in 67 days for 2 IRC's. (Glazzy-CA); same card in 16 days. No rp. (Hardester-CA).

TWR, 11925, f/d folder card and sked in 2 months. No rp. (Nicolosi-NJ); f/d folder card and pennant which I had requested in 18 days for 2 IRC's. Note said that verie was sent airmail because I sent 2 IRC's. (Meehan-CT); f/d CSL folder, wall calendar, sked and religious info in 12 days for 2 IRC's. Airmail postage on verie was 1 gulden. (Koenig-NJ): 11785, f/d card in 100 days for SS rpt or SS xmsn. No rp. (Bishop-MT).

**NEW CALEDONIA:** R. Noumea, 7170, f/d orange map card in 43 days for mint stamps. (Hall-NY); same card in 28 days for 3 IRC's. (Bishop-MT); same card in 1 month for EE rpt and mint stamps after f/up. Previous NASWA FF rpt w/ mint stamps wasn't answered. (Overcamp-SC).

**NEW ZEALAND:** RNZ, 11780, f/d "High Country" card in 4 months. No rp. (Brown-MI); f/d "Fisherman" card, sked and pennant for 2 IRC's. (Vockerth-PA): 11845, same card in 56 days for 2 IRC's. (Hancock-AL): same card and outdated note on closedown in 95 days for 1 IRC. (Mayer-IL); same card in 24 days for 1 IRC. (Conover-PA); 11865, f/d "Rugby" card and sked in 21 days for rpt on June 3 test xmsn and 2 IRC's. (Wala-MI); same card and sked

in 17 days for 2 IRC's. (Poppin-CA); f/d "Fishing" card and sked in 16 days for 2 IRC's. (Glazzy-CA): 15350, f/d "Rugby" card in 15 days for US \$1.00. (Hardester-CA): 11705, same card and sked in 15 days for 2 IRC's. (Poppin-CA)

**NOTICE! RNZ REQUESTS 2 IRC'S WITH RPTS AND ENQUIRIES.**  
**NIGERIA:** VON, 7275, f/d card in 99 days. No rp. (Clare-CA); f/d card and sked in 134 days for EE rpt. No rp. (Morrison-KY).

NBC, 6025 (Enugu), 6195 (Sokoto), 3204 (Ibadan), f/d VON cards in 2 1/2 and 3 months for rpts sent to Lagos. No rp. (McNeil-DC): 3204 (Ibadan), f/d VON card, sked in 1 month for EE rpt, 1 IRC, used stamps. (Moritz-OH).  
**NORWAY:** R. Norway, 11860, f/d "Spring" card, sked in 25 days for 3 IRC's. (Norby-MN): 9610, "Oslo" card in 3 weeks. Still the best cards around! (Cosier-AUST): 9645, f/d "Spring" card, sked and pamphlet on Norway in 17 days for 2 IRC's. (Glazzy-CA); f/d "Karl Johan Street" card w/call letters and power, sked, flag and info in 52 days. No rp. (Schulman-NY): 15175, f/d card, sked and flag in 32 days for 1 IRC. (Rockwood-OH); f/d card, 2 skeds in 52 days. No rp. (Moss-TX); f/d card in 2 weeks. No rp. (Overcamp-SC); f/d "Costumes from Sogan" card, sked, flag in 22 days. No rp. (Brindle-PA).

**PAKISTAN:** R. Pakistan, 7085, sked, decal and letter from Jamil Zoheri thanking me for my rpt and returning my 2 IRC's. He also said he was enclosing a CSL but this was a no-data blank "Mausoleum of Founders of Pakistan" card. Received in 210 days, surface mail. His letter was dated Oct. 22, 1975 but it didn't arrive here until June of this year. (Gionet-NB).

**PAPUA NEW GUINEA:** NBC, 9520, f/d form letter in 25 days for 2 IRC's. (Bishop-MT).

**PERU:** R. Panamericana, 5980, f/d letter in 104 days for SS rpt on SS xmsn and 2 IRC's. (Clare-CA).

**PHILIPPINES:** PBS, 6170, card in 7 weeks. No rp. (Cosier-AUST).  
 FEBC, 6030, f/d card, sked and pamphlets in 2 months. No rp. (McNeil-DC).

Radyo Filipinas, 9580, f/d pink VOTP card, 2 "New Philippines" mags, mini flag stickers and "Thank You" letter for answering questionnaire in 119 days for EE rpt and 1 IRC. (Poppin-CA).

VOA-Tinang, 15290, f/d Kennedy Center card in 10 days. No rp. Who got the last VOA f/d card? Mine was for a 4/27 xmsn. (Brown-MI); f/d Kennedy Center card in 7 days for 2 stamps. Card, signed by Monica Vall, has "from Philippines" printed on it. (Macris-MO).

**POLAND:** Polish Radio, 9540, f/d "Building" card, beautiful pennant and sked in 78 days for FF rpt. No rp. (Gionet-NB).

**PORTUGAL:** Emissora Nacional Portugal, 6025, card and tourist guide in 14 days for 1 IRC. (Rockwood-OH); scenic "Pleasure Boats" card in 17 days. No rp. (Cain-LA).

AWR-Sines, 9670, f/d orange "World" card, sked and religious material in 110 days for 1 IRC. (Brindle-PA).

**SEYCHELLES:** FEBA, 11810, blue/orange map card in 17 days for EE rpt and 2 IRC's. V/s Mary Berry. (Mitchell-CA); f/d card, sked, religious pamphlet in 18 days for EE rpt on test xmsn and mint stamps which were used on the reply. (Overcamp-SC, McNeil-DC): 15270, f/d card and sked in 24 days for 3 IRC's and EE rpt on Farsi xmsn. The letter was addressed to Alaska instead of Alabama. Thanks to Zip Code, it got here!! (Hancock-AL).

**RHODESIA:** RBC, 3396, "Gazelle" card in 15 days for EE rpt and 2 IRC's. V/s E. McKenzie. (Mitchell-CA).

**ROMANIA:** R. Bucharest, 11940, card and stickers in 7 weeks. (Barto-CT); f/d "Village Museum" card in 39 days. No rp. (Wala-MI).

**RWANDA:** DW Relay, 15410, f/d "Afrika" card in 5 weeks for 1 IRC. (Brown MI): 11795, card in 4 months for 2 IRC's. (Cain-LA).

**SAUDI ARABIA:** BSKSA, 11950, f/d "Flower and Sword" card, sked and personal "Thank You" letter from A.M. Swaile in 86 days. No rp. Card was signed by S. Fayoumie. My 50th verification! (Schulman-NY).

**SENEGAL:** R. Senegal, 11895, f/d "Banjo" card in 150 days for FF rpt and 1 IRC. They omitted "Saint John" in the address. The postal code saved me! (Gionet-NB).

**SEYCHELLES:** Check item before "Rhodesia". Sorry about that. The devil made me do it!

**SICILY:** RAI-Caltanissetta, 7175, card w/freq, time and date for "Second Programme" but no site or power. Originally received in January, 1976 for a rpt on a September, 1975 reception and 1 IRC. I returned it with a polite request for indication of Caltanissetta site and 5 kw power (or whatever it is) with mint stamps. Just got it back w/o any additional info with a book, "A Glimpse of Italy", 170 pages w/color pictures of every facet of life in Italy. (Overcamp-SC): 6060, "La Partenza di Tobiolio" card with the notation

"You heard part of our programme beamed by CALTANISSETTA, Sicily from 2040-2120 GMT on 6060 kHz" in 5 months for EE rpt on Italian program. No rp. (McNeil-DC). Yeah, but you didn't get a book like Tom did, Pitt. ed.

**SINGAPORE:** R. Singapore, 11940, f/d station logo card in 22 days for EE rpt and 2 IRC's. (Rojewski-WA).

**SOLOMON IS:** SIBS, 5020, f/d map card w/"SIBS" initials in 17 days for 2 IRC's. (Brindle-PA).

**SOMALI REP:** R. Mogadishu, 9585, f/d card in 34 days for EE rpt and 2 IRC's. (Gionet-NE); card in 4 months. (Barto-CT).

R. Hargeisa, 11645, verified in 60 days for EE rpt and 1 IRC via Mogadishu with regular Somali Broadcasting Svc card with seal. V/s illegible. All data for Mogadishu was crossed out and Hargeisa inserted. Meanwhile, report direct to Hargeisa with mint stamps has never been answered. VIC "197. (Sizer-CT).

**SOUTH AFRICA:** R. RSA, 11900, f/d "Springbok" card and 2 lbs of booklets in 26 days. Postage was 4.90 Rand! F/d SADXC card for same rpt in 41 days. No rp. (Norby-MN): 11900/21535, card in 6 weeks. No rp. (Vockeroth-PA): 9585, f/d "Springbok" card and "RSA Calling" in 20 days for 2 IRC's. (Glazzy-CA): 4875, same card in 34 days. No rp. (Poppin-CA).

SABC, 3955/4810, f/d "Industrial Montage" cards in 44 and 65 days for EE rpts. No rp. (Poppin-CA).

**SPAIN:** RNE, 11880, f/d "Antenna" card and pennant in 68 days for taped SS rpt and EE letter. No rp. (Rojewski-WA).

**SWAZILAND:** TWR, 9590, f/d fold-out card, station info and sked in 23 days. No rp. V/s Eleanor Platt. (Bishop-MT); "Warrior" folder card and religious info in 1 month for 2 IRC's. (Vokes-TX).

**SWEDEN:** R. Sweden, 15305, f/d map card, sked and pennant in 91 days. No rp. Postage for airmail verie, 1.60. (Plotnick-CT); card in 2 weeks. No rp.

(Cosier-AUST); f/d card and sked in 46 days for 2 IRC's. (Nicolosi-NJ): 6035, f/d card and club bulletin in 58 days. No rp. (Hall-NY): 9695, f/d card and sked in 75 days. No rp. (Bishop-MT): 11705, f/d card, sked and R. Sweden picture folder in 15 days on 2nd try. No rp. First rpt with 2 IRC's was never answered. (Hancock-AL): 6045, f/d card, sked and DX Club info in 62 days. No rp. (Schulman-NY).

**SWITZERLAND:** SBC, 9725, f/d "Basle Market Place" card in 45 days for 2 IRC's. (Glazzy-CA): 6135, card in 7 weeks for 1 IRC. (Cain-LA): 15140, f/d "Dancing Bird" card in 54 days. Sked came in an envelope 11 days earlier. The envelope was opened and I feared the worst for my QSL card! (Mark-IN).



FUNDAÇÃO N. SRA. APARECIDA  
RÁDIO APARECIDA  
ZYE - 236

9635 KHZ 5035 KHZ OM. - FM.

31 M 60 M

APARECIDA - SÃO PAULO - BRASIL

Dear Mr. Samuel L. Barto - U.S.A.

This card verifies your reception of

RÁDIO APARECIDA, ZYE - 236 - BRAZIL

on 07-05-75 at 06:13-06:25 GMT

Frequency: 9.635 Band: 31 MHz.

YOUR DETAILS ARE CORRECT. THANK YOU!

JOSE CARLOS RIBEIRO  
Dep. TÉCNICO

QSL - CARD

**TAHITI:** R. Tahiti, 11825/15170, "Polynesian Maiden" card (artist's concept of the profile of an unclad lovely female) in 57 days for 2 IRC's and rpts. on FF and Tahitian broadcasts. A few more cards like this and I'll have to hide my collection from my grandmother! (Hofmann-PA): 11825, same card and sked in 3 months for 2 IRC's, EE letter and cassette of FF prgm. (Brunner-PA); card and sked in 91 days for FF rpt and FF letter. No rp. (Poppin-CA); card in 1 month for 1 IRC. (Vockeroth-PA): 15170, card in 3 months for EE rpt and 2 IRC's. (Sackheim-AR); card in 1 month for 1 IRC. (Brown-MI).

- TAIWAN:** BCG, 17890, f/d "Bronze Ceremonial Tripod" card, sked and pennant in 91 days for 3 IRC's. (Moss-CA); f/d card and literature in 120 days. No rp. (Clare-CA): 11860, new-style card w/scenery, sked and info on Taiwan in 22½ weeks. No rp. (Cosier-AUST); f/d "Bronze Ceremonial Tripod" card, sked, pennant and station info in 5 months for used stamps, postcard. (Moritz-OH).
- TANZANIA:** R. Tanzania, 15435, "Sauti ya Tanzania" card w/o time in 9 weeks for mint stamps. (Overcamp-SC); card w/o time in 51 days for EE rpt and postcards. No rp. (Gionet-NB).
- TOGO:** R. Togo, 5047, f/d card in 26 days for FF rpt. No rp. (Gionet-NB).
- TUNISIA:** RTVT, 7275, f/d "Hotel Sousse" card in 22 days for EE rpt on AA prgm. No rp. (Schulman-NY); f/d postcard verie in 3 weeks for EE rpt and 2 IRC's. (Barker-TX): 7225 (Sidi Mansur?), f/d card in 5 months. (Barto-CT).
- TURKEY:** TRT, 9515, f/d card and info on country in 43 days. No rp. (Hall-NY); f/d card and tourist info in 33 days. No rp. (Mark-IN); card in 2 months. (Barto-CT); f/d card in 34 days for 1 IRC. (Macris-MO); card w/o time and tourist info in 31 days. No rp. No pennant either. (Meehan-CT).
- UKRAINIAN SSR:** R. Kiev, 15210, f/d card, sked, newspaper and rpt form in 23 days. No rp. (Hancock-AL).  
R. Moscow via Lvov, 7150, f/d "Kalinin Prospekt" card in 3 weeks. (Brown-MI). Via Ivano-Frankovsk, 7110; via Siferopol, 15450, cards in 6 weeks. (Barker-TX). Via Vinnitsa, 11735, f/d "CMEA Building" card in 33 days. No rp. (Cohen-NJ).
- UNITED STATES:** KGEI, 9615, f/d card, pennant and info in 9 weeks on 2nd try for SS rpt. Don't they answer EE rpts from outside the target area anymore? (Ball-ONT).
- WINB,** 15185, f/d card and promise of pennant in 25 days. No rp. (Hall-NY): 17720, f/d card and sked in 2 weeks. No rp. (Vockeroth-PA).  
WYFR, 6155, f/d "Mike" card, 2 skeds and personal letter from Richard H. Homeres, SW Staff, in 10 days for 50¢ "S stamps. (Koenig-NJ)  
VOA-Dixon, 11830, f/d card after 2 f/ups. This reception was prior to the new policy and it took some time to get the correct site on the card. My 14th VOA site! Amen! (Overcamp-SC).  
VOA, 11955, f/d Capitol card in 29 days. No rp. (Norby-MN):  
15220, f/d Kennedy Center card in 1 week for a 13¢ stamp which was returned. (Glassy-CA): 17800, f/d card in 4 days. (Bishop-MT).  
UN Radio, 15410, card, sked in 8 days. No rp. (Norby-MN).  
WWV, 2500, folder card and booklet in 11 days. No rp. (Norby-MN).
- URUGUAY:** R. El Espectador, 11835, f/d card in 130 days for SS rpt on SS xmsn and 2 IRC's. (Clare-CA); f/d card in 6 weeks for NASWA SS rpt and mint stamps. (Overcamp-SC).
- VATICAN:** Vatican Radio, 6165/9605, f/d "Antenna" card and sked in 21 days for EE rpt and 1 IRC. (Nicolosi-NJ): 5995, f/d card and sked in 20 days. No rp. (Mark-IN): 9605, f/d color card of Vatican in 10 days. No rp. (Hardester-CA): 6105, card in 16 days for bilingual rpt and 1 IRC which was returned. (Lausevich-WI); f/d "Sistine Chapel" card in 5 weeks for 1 IRC. (Koenig-NJ).
- VENEZUELA:** R. Dif. Venezuela, 4890, f/d verie letter for SS rpt and SS letter in 47 days. No rp. V/s Vice Pres. Antonio Cajade F. (Poppin-CA).  
R. Nacional, 15390, f/d form letter in 5 weeks for 2 IRC's. V/s Charlie Nash. This was confirming 15390 kHz although I reported in 15400 kHz which is the freq they are using but not announcing. (Barker-TX).  
R. Tropical, 4870, letter and pennant in 1½ months for SS rpt. (Barto-CT).  
R. Rumbos, 4970, f/d card in 41 days for EE rpt on SS xmsn and 3 IRC's. (Morrison-KY).  
R. Barquisimeto, 9510, card in 1 month for NASWA SS rpt. No rp. (Cain-LA).
- VIETNAM (N):** V. of Vietnam, 7512, verie letter in 3 months after f/up. Gives no freq and the wrong date and time! (Cosier-AUST).
- YEMEN (PDR):** Aden Radio (DYBS), 7190, card in 2 months. (Legge-VA).
- ZAMBIA:** R. Zambia, 9580, f/d white card in 27 days for EE rpt. No rp. (Gionet-NB).

## "ODDS &amp; ENDS"

- VOLMET UTILITIES:** Here's 2 Volmet stations which were reported.
- ALASKA:** Anchorage Radio, 8905, letter w/verie statement. No data. Two 13¢ stamps were returned. Power is 3 kw. (Conrad-IA). How long, Jim?
- IRELAND:** Shannon Radio, 5533, pamphlet QSL in 12 days for 1 IRC. Easy way to get Ireland on Shortwave. (Capobianco-NY). Not for NASWA members, Tony. And that's all.

"WANT TO BE LOVED? TRY POLISH RADIO. THEY LOVE YOU" *Bill*

# DX

next deadlines: 8/16 and 8/23

NEW EDITOR: John Moritz  
4145 New Road  
Youngstown, Ohio 44515



# Hotline

•Editor: Ralph W. Perry

**ATENCION!** -- With the mid-August DXH, as Mac has announced elsewhere in this ish, the DXH passes on to well-known Ohio listener John Moritz, Jr. Thanks go out from this corner to all the stalwarts who helped us bring the Hotline along so far over the past year. Those familiar with John via IR and QSL Report (and his fine work in that remaining bastion of Midwestern chauvinism, GLDXA1 raht-ohnn...) know he has the savvy and wit to put together a super section. I've enjoyed being your DXH-ed and the reasons behind my resignation are several, though we won't go into that. Those wishing to reach me will find me spelling Don Jensen in a co-editing seat on NU. See you on 60 meters, dudes.../Ed.

**MONGOLIA** - following sked based on actual monitoring presented via Down Under DXers for your invaluable reference: 4080v-77, Home Svc, 1100-1500 in Mong.; 4762v-64, Home Svc, 1100-1500 in Mong.; 4948v-52, poss 50kW used March-June, 1300-1330 and 1400-1430 CC, and 1330-1400 and 1400-1430 in Mong.; 5054v-53, Home Svc. 50 kWer, 1100-1500 in Mong.; 5960, various langs in foreign svc 1000-1100 and 1300-1500; 7237, used in June-March w/50kW, varies to 7239, 1300-1400+ in CC&Mong.; 6383, Home Svc in Mong. 0930-1210; 7260, 50kW used June-March w/ 0900-0930 Mong, 0930-1000 RM-Mong.rly, 1300-1330 and 1400-1430 CC, and 1330-1400 and 1430+ Mong.; 10650, foreign svc used 1975 0820-0850 in Mong.; 11855 Home Svc, 0900-1000 in Mong (//7260); 17785, foreign svc used June-March 1220-1250 EE. \*\*\*This year, into June, EE hrd at 1220: 6383 and 5960, and late in 1975 some tests were noted on 7300. (Mike Willis, in DUDX) Superb!/Ed.

**TAINAN** - 6104, Vo Chinese Air Force, Taipei, hrd 1105 June 3 in CC w/out jamming, reactivated, rechecked at 1135 when thoroughly jammed, not sure if // 7260. May sign on earlier than sked 1055, as jamming hrd under NZ at 1020. (Dave Foster, DUDX)  
7260, ditto, pop songs in EE from 1115, nx in CC 1130, not hrd on subsequent days from June 3, moderate jamming. Don't confuse with Ulan Bator. (Dave Foster, DUDX)

**VIETNAM** - 7512, \*1045 Tay Nguyen, good, don't know if this is reg s/on time, hrd //9841. (Mike Willis, DUDX) Mike, do they mtn site at opening...this one never quite clear if the WRTN is right?/Ed

**NOVHERESVILLE (USA)** - Sharp ol' Charlie Brunner has an idea about how to fight the "placeless xmters" of the VCA. "I've written Goldwater about VCA stopping QSLs confirming sources of transmission. Perhaps we should all do this and also complain about WWV's preparation policy. The senator is an active ham and logical person for help. Arizona DXers can really help as well. I think Goldwater could change things if he became active!" That's using the noodle, Chas...sure can't hurt!/Ed.

**VEREZUELA** - 4760, R. Frontera, first time hrd, many IDs 1011 in SS, 1A mx, usual ute not there this date, 6-24. SIO342. (J. Jones, Miss.)

**MEXICO** - 6165, Mexican here, hrd July 14 1139, Mexicali mx, tlks, IDs as "XEW en Mexico, Distrito Federal..." SIC232. '75 WRTN lists him on 6160 but here's where he is, nothing earth shaking. (J. Jones)

**ANTARCTICA** - 7215, AFAN-McMurdo is being hrd on this fq at 0800 but with a poor sig, but blocked later when Brunel fades in. (Art Cushen, NZ DX-Times)

**FALKLANDS** - 2370, FIBS hrd July 4, MoR record at 0007, then into solid BBC WS relay, 0009 to 0145, with "News About Britain", "Radio Newsrec" and "Theater of the Air". Also hrd 2312 to 2345 when lost, with rlg svc, not BECWS. Why no rly of wid nx at 0000. (Tony Jones, Asuncion, Paraguay, via Numero Uno.)

OKAY GANG...SEND RPTS TO JOHN-JOHN at 4145 New Rd., Youngstown, OHIO 44515 73st

# Log

• Ed. Sec-A: Dan Robinson  
44 Spring Valley Rd., Levittown, PA 19056



# Report

## Section A

- 2475 JAVA R. Angkatan Bersenjata; 1516 w/relay of Jakarta mx, then def. non RRI or RPD ID at 1520 (Cosier-Aus.)
- 2580 COLOMBIA R. Pipaton; Cf previous rpt, stn here is R. Pipaton, HJNY, 2 x 1290, located in Barrancabermeja; noted 7/3 on later than before, 0430 w/wild mx and tlk; 7/5 0447, live coverage of some event, ads, 0457 ID as "R. Pipaton, Todelar" and gave freq; should be widely hrd (Hauser)
- 2695 N. KOREA Chongjin; KK well hrd at 1430 w/long, boring monologue by M (Willis-Aus)
- 3200 P.R.CHINA Fuzhou PLA; 1027-1033 weird CC instr. mx followed by W in CC (Moritz)
- 3204 NIGERIA Ibadan; 0435 ID, px. summary in EE, mx and tlk (Hauser, Dunn)
- 3205  BRAZIL R. Ribeirao Preto; 0223-0232 LA vocals of uptempo nature, M in PP briefly, RTTY QRM (Moritz)
- 3205 JAVA RRI Bandung; M in Indo, audio booming at 1226, but low signal strength (Davis)
- 3205 INDIA AIR-Lucknow; 1732 EE mx, 1735 ID (Junqua-Osaka)
- 3218 UNID 0420 native mx, deep in the mud; listed CME de NASWA as \*0400 in lang, poss. an African- sorta doubt it's the 300 watt Mozambique stn (McNeil)
- 3222 TOGO Lama Kara; 2200-2235 FF px w/M & W, mx at 2200 mostly African items; hrd by Bob Padula and Peter Bunn on IX-peditions to Apollo Bay and Tarra Valley in Aus (Cosier, Padula & Bunn)
- 3225  BRAZIL Lins Radio Clube(T); 0930 hrd w/px of ranchera type mx-listed in WRH(Field) PP stn here from 0836-0905, clear signal but no ID (Barto)
- 3227 LIBERIA ELWA; 2200 in lang, same fade pattern as 3255 suggests these Liberians (Cosier) The one time I hrd ELBC, Geoff, it was at 44444 at 0000\* but never since. 0621 in lang tlk (Dunn)
- 3241 MOLUCCAS RRI Ambon; M in Indo, weak (Davis)
- 3243 IRAQ RB; 1621 Kurdish px, chants (Junqua)
- 3245  BRAZIL R.C. de Marilia; from 0845-0855 in PP, weak and choppy signal, mx (Barto)
- 3245 VENEZUELA R. Libertador; 0129-0136 in SS tlk, ID's, LA mx (Yajko, Miller) 0247-0252 w/lengthy SS tlk by M (Moritz)
- 3250 UNID 1003 tlk by M in lang, 1005 orientalish mx w/violin type mx and singing by M, 1008 more tlk by M (not SS or PP); only thing listed would be the Indo (McNeil)
- 3250 BORNEO RRI-Banjarmasin; M in Indo w/UTE QRM, but still fair (Davis)
- 3250 SOUTH AFRICA SABC; 2200-2240 w/All Night Svc., EE/Afrikaans, ads, pop mx (Padula)
- 3255  BRAZIL R. Educadora do Cariri; from 0843-0900 in PP w/few ancmts and many vocals (Barto)
- 3255 LIBERIA ELBC(T); 2201 in lang, hrd once fading in but noise too severe; M hrd with ancmts (Cosier)
- 3255 UNID; 0145-0200 in lang w/M anc, ballad mx, vly weak (Davenport)
- 3259 JAPAN NHK-Sendai; 1300\* in JJ H.S. noted all over China on 3260 to s/off after time pips at 1300- rare for Australia (Cosier)
- 3265 COOK IS (T); 0500-0525, ABC mx and into light mx px; off by 0525; UTE/local QRM but audible under (Davenport 6/13) If you're sure about the ABC mx then you might have something, but do you mean 0525\* here? ed.
- 3275  BRAZIL Bauru Radio Clube; hrd with full ID 0900 in PP, fair signal (Barto)
- 3275 SWAZILAND TWR; 0436 rel. song by M, then chorus, tlk by W and M w/partial ID; fair but going downhill and UTE QRM trouble from low side; listed //3200 not hrd, and other listed 3240 and 3365 for 0330-0415 covered by UTES (McNeil)
- 3280 ECUADOR LV del Napo; 1010-1030 Indian/vern px of group singing, and tlk by M, ID and tlk in SS by M 1021; ID and TC, LA mx (Jones, Moritz)
- 3290 GUYANA GBS; 0244-0245\* in EE, mx and NA at s/off (Dunn) 0820-0845 EE, mx and mx; 0900-0908 M in EE mx, into EE vocal 0905, UTE QRM (Hall, Moritz)
- 3300 BEJIZE R. Belize; 0049-0105 in SS, light EE/SS vocals- quick way to ID is //834 (Krueger) 0438 in EE tlk, used LSB and notch (Dunn)
- 3315 MARTINIQUE Fort de France; 0018-0022 W in vocal song followed by FF tlk (Moritz)

- 3316 SIERRA LEONE SLBC; modern vocals, ballads, EE anmets 2215-2240 (Padula) \*0600-0620 w/ID, NA and prayer by W at 0604 when another ID and nx; also ads in EE & vern (Moritz, Dunn)
- 3325 BRAZIL R. Gazeta de Alagoas; 0000-0030 in PP w/vocals and anmets - this stn. usually the first to appear on 90m, in early evening (Barto)
- 3325 ECUADOR Ondas Quevedenas; 0945-1002 despite sked in WRH 76 am hearing this one w/Andean-Ecuadorian vocals with QRM de CHU, P-F (Moritz)
- 3325 VENEZUELA R. Monagas; 0154-0204 M in SS barely hrd, EE and SS rock/pops (Moritz)
- 3325 WEST IRIAN RRI Jayapura; \*2055, opening anmets by W in Indo; at first thought a new African had appeared (Padula 6/15)
- 3331 COMORO IS FR3; 1720 in Comorian, odd E. African high-life tunes, then presumed Comorian rx 1730 after mention of "Comores" (Cosier)
- 3335 BRAZIL RC de Conquista; 0825-0840 PP w/vocals, clear ID at 0829 (Barto)
- 3335 UNID 0540-0605 in lang tribal drums & chants, poss ID (Davenport) See below, ed.
- 3336 SENEGAL Ziguinchor; 0629 Ziggy w/African vocals, tlk by M in FF 0630 past 0634, probably the nx; CHU QRM- first time hrd since Feb. 75 (McNeil)
- 3338 MOZAMBIQUE R.M.; PP tlks 2145, followed until s/off 2220 w/ID by W in PP (Padula) 0407-0415 W in PP nx, into African mx 0411, M in tlk briefly 0413, P (Moritz)
- 3340 ECUADOR R. El Mar (T); 0157-0221 EE & SS pops/rock, LA ballads; M in fast SS twist mx- no ID hrd and I hardly think it's the Bolivian (Moritz)
- 3345 INDIA R. Kashmir; 1634 Jammu hrd w/lang tlk, local mx (Junqua)
- 3346 ZAMBIA ZBS; 2155 Gen Svc in EE, epilogue 2155, EE ID 2202\* w/hymn (Padula)
- 3350 GABON RTG; 0451 w/FF and vern by W ancrs--has to be more than 4KW, VG (McNeil)
- 3355 VENEZUELA R. Impacto Valencia; \*1001 w/NA, chorus, ID, LA mx (Jones) 2320-2330 in SS, lite mx (Krueger) 0052-0117 (T) in SS tlk, anmets, LA vocals by W (Moritz)
- 3356 BOTSWANA RB; 1750 African mx px, 1800 pips and nx (Cosier)
- 3360 GUATEMALA LV de Nahuala; 0300-0400 in SS w/N ancr, local mx (Davenport) Your tent on Papua-New Guinea Bill, is doubtful 0400-0500. More likely Nahuala on late in vern programming that sounded like Pidgin, ed.
- 3365 BRAZIL R. Educadora de Parnaiba; hrd 0900\* w/Brasilian px-best on 90m lately (Barto)
- 3370 MALAGASY REP. RTVM (T); 1625 in lang preserved Malgache along w/African mx- is this still R. Universite or RTVM? (Cosier)
- 3375 VENEZUELA Voz de la Fe; 0206-0234 and again 0314-0352 special bdcst of sports event w/occasional studio breaks w/M&W in SS anmets and IDs; this one has a somewhat irregular operation, not reported in a while (Moritz 6/10)
- 3380 MALAWI MBC; 1642 in Chichewa w/Afro. mx, IDs (Junqua) 2200-2210\* w/ID, NA (Padula) 0328-0402 M in EE anmets and Chichewa tlk, Afro tunes; ID in EE then lang nx (Lineback, Moritz)
- 3385 BRAZIL R. Congonhas; \*0900 w/tlk and inst mx, good til 0915 (Barto)
- 3385 NEW BRITAIN R. East New Britain; 0943-0950 island mx w/M in steel guitar mx, then M in pidgin, vocals (Moritz) 1038-1104 group singing, local mx, Pidgin tlk (Miller, Lineback)
- 3385 FR. GUIANA FR3; 2325 pop songs, FF tlk by M; 2330 piano "chop-sticks," strong but het QRM (McNeil)
- 3390 ECUADOR R. Zaracay; \*1005, ID 1006, into Ecuadorian mx (Moritz, Padula) 0118 ID, LA mx (Yajko)
- 3393 BALI & LESSER SUNDAS RRI Singaraja; 1125 in Indo usual Indo pop. lcl tunes, with listener's letter replies (Cosier)
- 3396 RHODESIA RBC; 0402 EE rx by W, 0431 some light mx (Gavaras, Lineback, Moritz)
- 3396 NIGERIA NBC-Kaduna; 2115 in Hausa all over RBC w/Afro chorus mx, EE mx 2200; best after Gwelo 2200\* (Cosier, Padula)
- 3405 INDONESIA UNID; 1420-1540 w/Indo pops and general anmets, good modulation (Cosier)
- 3408 JAVA R. Angkatan Bersenjata; vy weak audio 1220, same type sigs as all Indos hrd this morning (Davis 6/12) Are these the same? ed.
- 3445 INDONESIA RRI Purwokerto; weak audio but same sigs as 3408 (Davis 6/12)
- 3850 UNID Timor (T); 0925-1400\* in lang hrd from 6/11 w/initially superb signals, played Native songs and marches, very soft anmets; is not ex-3459, both hrd at once (Cosier)
- 3885 CAPE VERDE IS Em. Oficial; 0012-0101\* in PP tlk by M, lite mx, NA and off (Krueger)
- 3893 JAVA RPKD Sidoarjo; 1209, M in Indo, P (Davis)
- 3905 JAVA RRI Jember (T); 1208 w/relay of Jakarta nx (Davis)
- 3905 ADMIRALTY IS R. Manus; 1140-1202\* in Pidgin, mx & anmets, NA 1200 (Bishop)
- 3920 CAPE VERDE IS Voz de Sao Vicente; 2310 pop inst, PP anmt by W, more mx; fair sig but almost buried by AROS; 3885 booming at same time w/piano solos (McNeil 6/13)
- 3935 JAVA RRI Semarang; 1155 soft mx to 1157, brief anmt by M, Love Ambon and Jakarta nx, G (Davis)
- 3945 NEW HEBRIDES R. Vila; 0659 song by male vocalist, apparent nx by M from 0700-0714 in FF; tlk by W in Pidgin w/FF sounding words thrown in; best copy ever (McNeil)
- 3960 SUMATRA RRI Padang; 1225 in Indo w/CW mx, tlk until KO'd by RFE (Beal)
- 3975 JAVA RRI Surabaya; Jakarta nx 1201, E (Davis)
- 3980 W. GERMANY VOA-Munich; 0445 f/in w/mx px for Africa, EE anmets, via LP (Padula)
- 3985 IRIAN JAYA RRI Biak; 1207 w/Jakarta nx (Davis)
- 3995 SUMATRA RRI Tanjung Karang; Jakarta nx 1205 (Davis)
- 3995 W. GERMANY DW; 0430 LP reception, GG tlk for Africa-only 2:30 PM here (Padula)

- 4000 SULAWESI RRI kendari; 1206 w/Jakarta relay mx, UTE QRM (Davis)
- 4735v PAKISTAN RP; 1831 w/mx, AA tlk & ID (Wootten-Italy) This is the UNID that Mike Willis has on 4737 at 1430, ed.
- 4750 ZAIRE R. Lubumbashi; 0458 in poss FF, lang nx 0504, UTE QRM (McNeil)
- 4760 VENEZUELA R. Frontera; 1011 in SS, many ID's, LA mx; listed in WRH (Jones) Nice, ed.
- 4760 PERU R. Tingo Maria; 0140-0155 SS & LA vocals; bad UTE/QRM and weak (Barto)
- 4764 SUMATRA RRI Medan; 1232, chimes followed by lcl ID, E (Davis)
- 4765 ECUADOR C.R.E.; 0336-0400\* SS, nx and ads; ID as C.R.E., R.C.N., and R. Cadena Nacional (Gaffin)
- 4775 JAVA RRI Jakarta; 1057 orchestral type mx, tlk by W 1100, then more mx 1102(McNeil) 1145 in Indo, pop mx and EE vocals (Beal)
- 4775 BRAZIL Voz do Oeste (T); listed; 0928 PP DJ yak, ads, no ID at 0930, mx (McNeil)
- 4782 DOM REP R. Norte; 0900-0912 in SS, LA mx, one ID (Cain)1025 SS, ads, mx (Miller)
- 4783 MALI RM; 0640 lcl mx //4881; also in Mali evening period 2320-2330 //4881(Padula)
- 4785 TANZANIA RT; 0408 with Swahili mx by M, seems //5050 $\frac{1}{2}$  (McNeil)
- 4785 BRAZIL R. Ribamar; tent 0246-0300 in PP, M&W ancrs, ads (Davenport)
- 4790 IRIAN JAYA RRI Fakfak; 1046 Indo pops (Junqua)
- 4790 SWAZILAND TWR; 2045-2105\* religious play, 2105\* w/ID and short I.S., EE(Wootten)
- 4790 PERU R. Atlantida; 0345f/in another big signal w/LA rhythms, late night show for Saturday evenings; this is 1:45 PM lcl time! (Padula)
- 4790 UNID; Indian/Subcontinental stn, poss Bangladesh, 1430 w/nx by W (Willis)
- 4795 BOLIVIA R. Nueva America; 0355 LA mx, anmts 0400 w/ID by M, then s/off with short musical piece (Padula)
- 4810a COSTA RICA R. Reloj; 0515-0535 SS tlk on women drivers//4832 & 6006(Gaffin)
- 4815a UPPER VOLTA Ouagadougou; FF tlk 0554 via LP, (Padula)
- 4815 BRAZIL UNID; 0153-0215 PP, M ancr in tlk w/PP mx (Davenport)
- 4820 GAMBIA R. Gambia; 0633 EE w/chanting by a M to 0659; EE ID, time pips, EE mx- is still on the air! (Gavaras) Hopefully for a long time to come, ed.
- 4820 ANGOLA R. Nacional; 2330 PP anmts, still good at 0000\* w/PP ID and freqs (Padula)
- 4820 ECUADOR R. Paz y Bien; \*0927 Ecuadorian anthem, day's bdcst sked, TC's, Andean mx, some rel. tlk but no ID hrd (Jones)
- 4820 VENEZUELA R. Tricolor; 1035 s/on w/SS anmts, nice ID 1045 after Venezuelan mx, then into SS ballads to 1050 (Padula) 0840 SS, nx, ads & ID (Tannenwald)
- 4820 UNID; Latin stn here 0345, quite good (Willis, Cosier) Assume you've ruled out HRVC?
- 4832 COSTA RICA R. Reloj; here 0210-0900 w/TC's, ID's as "R. Reloj" and "R. Capital" Ellas on only once with Reloj on most of time (Davenport, Dunn, Drennan, Bishop, Padula)
- 4835 SARAWAK R. Malaysia; 1155 in Malay w/nx, ID 1158; QRM de Indo on 4830 (Beal)
- 4845 MOLUCCAS RRI Ambon; 0952-1002 Indo vocals, W ancr (Cain)
- 4845 BOLIVIA R. Fides; 0150 SS, classical mx/stringed mx (Miller)
- 4845 MAURITANIA Rdf. Nationale; 2342 in AA cmty (Schwartz) \*0600-0620 in AA and FF w/ chanting and stringed mx (Padula, Gavaras, Dunn, Cain)
- 4845 BOTSWANA RB; EE nx 0508 (Dunn)
- 4850 ETHIOPIA ETLF; 0258 s/on w/ID, P (Koziomkowski)
- 4855 BRAZIL RC Para; 0925 w/ID, PP tlk(Jones) 0855 mx & tlk (Tannenwald)
- 4858 VIETNAM Hanoi; VV px // 10224 hrd well 1300-1600 (Willis)
- 4860 PERU R. Chinchaycocha; 0400-0535\* SS vocals (Padula) 0630 Andean tunes, SS anmts; (Cosier)
- 4860 USSR R. Moscow; EE svc for NA 0010 which is 10:10am lcl time here (Padula)
- 4865 BRAZIL R. Soc. Fiera do Santana (t); 0116-0130 PP, M ancr w/PP lang mx, only no ID hrd- need help on this one (Davenport)
- 4865 COLOMBIA LV del Cinaruco; 0300-0600 SS px (Willis, Cosier)\*0942 SS, NA, march mx, ID, LA mx (Jones)
- 4872 IRIAN JAYA RRI Sorong; 0911-0949 Indo vocals, mx, M & W ancrs (Cain) 1236, M in Indo (Davis)
- 4870 BENIN LV de Rev; 2230-2250 M w/lcl tlk, strongest 60m Afro (Mayer) 0545-0650 hrd w/FF px, drums and Afro mx (Cosier, Padula) This item out of order, ed
- 4871 SRI LANKA SLBC; 1430 in Sinhala (Willis)
- 4875 UNID; African here, FF anmts 2230 after mx, tlks to 2238, then more rhythms to f/out or s/off 2255 (Padula) See 4881, ed.
- 4875 BRAZIL R. Jornal do Brasil (T); 0116-0200 PP, M in tlk between mx (Davenport)
- 4875 BOLIVIA La Cruz del Sur; 0132-0205\* EE, song, into M w/sermon; SS at 0200 and probable EE ID at close; no ID but who else? (Overcamp)
- 4881 ZAIRE Kinshasa; good level as late as 0010 in clear after Bamako 4881s/off 0000, lcl songs and chanting, hets with Bamako prior to 0000 and weaker (Padula)
- 4881 MALI Bamako; FF tlks 2225, Afro mx 2245, is //5995 and 4783 this time and hets w/Zaire 4880; to 0000\*; Pitt McNeil ID'd this one also in TDXNL (Padula)
- 4891v ECUADOR R. Centinela del Sur; 0404\* ID, fgy, NA and off(Jones) 0300-0530\* in SS good level (Willis) 0410-0600 on late sked (Padula)
- 4900 UNID; Afro here, f/in 2230 w/tlk in lang; this freq was Maiduguri once (Padula) That is it for now-absolutely no room for anything else-----73, Dan

# Log

# Report



## Section B

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

- 4904 CHAD RNT; 1841 FF, pop mx Afr style (Wootten 6/6) 0517 FF, lcl mx, annmnts, f/o 0540 (Fadula/Bunn-Victoria 5/29)
- 4905 BRAZIL R. Relogio Federal; 2230-2325 IP, rel pgm, hymns, annmnts, tlks. I've never hrd Brazilian on 60 m in this time period before (Fadula/Bunn-Tarra Valley 6/13)
- 4905 ETHIOPIA ETLF; 0305-0325\* Amharic, rel tlks, mx, ID (Wootten 6/7)
- 4910 GUINEA Conakry; 0650-0655 FF tlks (Fadula/Bunn-Victoria 5/28)
- 4910 UNID. LA stn hrd as early as 0250 to past 0600. Any ideas? (Willis) Could be either Em. Gran Colombia or R. Carora as both reported on that late. KCC.
- 4911 ZAMBIA R. Zambia; 0327 Vern, lcl mx, annmnts (Wootten 6/7) -ski,
- 4915 GHANA GBC; \*0530-0610 EE/Vern, nx, tlk, mx (Schneck 7/2, Koziomkow Fadula/Bunn-Victoria) 2305 Vern, cmntry, rel pgm (Schwartz 6/6)
- 4920 AUSTRALIA ABC Brisbane; 0713-1041 EE, rel pgm, tlks (Tannenwald, Moritz 7/4, Dunn 7/5)
- 4920 HONDURAS R. Progreso; 0347-0400 SS, mx, ID (Cain) 0955 SS, ID, TC, mx (Jones 6/30)
- 4920v ECUADOR R. Quito; 0418-0425 SS, ID (Krueger 6/20)
- 4923 MOZAMBIQUE R. Mozambique; 2210\* PP, nx //3210, 3338 (Cosier)
- 4925 UNID. LA stn first hrd 0500 to past 0900 in SS, possibly Em. Meridiano with many mod SS vocals (Fadula/Bunn-Tarra Valley 6/12)
- 4926 EQ. GUINEA R. Ecuatorial; 0504 SS tlk, Afr mx (Gavaras 7/7)
- 4932 JAVA RRI Surakakarta; 1241 Indo, tlk by M (Davis 6/12)
- 4940 IVORY COAST RTVI; 2309 FF, cmntry, mx (Schwartz 6/16) \*0600 FF, ID, annmnts, hrd past 0700 (Fadula/Bunn-Victoria, Willis)
- 4940 VENEZUELA R. Yaracuy; \*0956 SS, NA, march mx, ID (Jones 6/11)
- 4945 COLOMBIA R. Colosal; 0910-1000 SS, LA mx, ID's (Drennan 6/28) 0300-0315 SS vocals (Fadula/Bunn-Victoria, Willis/Cosier)
- 4947 BRAZIL Voz de Sao Francisco; 0145-0152 FF, tlk, annmnts, EL mx, instru (Moritz 6/16)
- 4950A BRAZIL unid. 0140-0200 FF, annmnts, tlk (Davenport 6/18) How about above. KCC.
- 4960 VENEZUELA R. Sucre; 0346 SS, ID, nx (Jones 7/8)
- 4965 COLOMBIA R. Santa Fe; 0602-1000 SS, LA mx, ID (Drennan, Koziomkowski)
- 4965 HONDURAS R. Landia; 0247 SS, ID, mx, terrific GRM (Jones 6/8)
- 4970 VENEZUELA R. Rumbos; 0300-0700 SS, mx (Willis/Cosier, Koziomkowski)
- 4972 CAMEROON R. Yaounde; 0506-0530 FF, special brdcast protestin' S. Afr repression (Schwartz 6/19)
- 4975 PERU R. Del Pacifico; 0324 SS, mx, ID (Koziomkowski 6/23)
- 4980 GHANA GBC; 0600-0624 EE, tlks, nx (Fadula/Bunn-Victoria, Willis Cosier, Koziomkowski)
- 4980 SWAZILAND SCR; 0458 FF, "porcorn" IS, tlk, mx (Gavaras 7/7)

- 4980 VENEZUELA Los del Torpedo; 0710-0711 SS, LA mx (Cain, Padula, Bunn-Victoria 7/20)
- 4985 BRAZIL R. Brasil Central; 0700-0700 SS, mx, tks, ads (Padula, Bunn-Victoria & Tarra Valley, Cain, Lausevich, Tannenwald, Clay)
- 4990 ARGENTINA R. Catolica (formerly Academia); 2307 SS, believed to be same here with tks by LA, soft mx (Padula, Bunn-Victoria 7, 20)
- 4990 VENEZUELA R. Marquisineto; 0700-0717 SS, SS mx, ID (Gaffin 7/1)
- 4990 NIGERIA MC Laros; 2200-2300\* SS, chants, IS, mx (Laver 7/2)
- 4995 PERU R. Andina; 0254 SS, ads (Yajko) 029 SS, IS, TC, Andean mx (Jones 6/17)
- 5000 CHINA ILA; 1242 SS, in SS screaming, typical pop (Davis 6/12)
- 5005t PERU R. Jaen; 0400-0402 SS, anncmnts, mx, pops, apparent s/off at 0430 (Padula, Bunn-Tarra Valley)
- 5020 SLCLO LA IS SIIISS; 0829-1132\* SS, SS mx, mx, rock mx (Moritz 6/11, Cain, Bishop 6/15, Schwartz 6/21, Lineback 6/24, Clare, Underdown)
- 5020 VENEZUELA Los del Atrato; 0001-0217 SS, LA vocals, many ads, ID, tks (Moritz 6/6, Miller 6/23)
- 5020 NIGER ORIN; \*0530-0548 FF, s/on with NA, tks, chanting, lcl mx (Padula/Bunn-Victoria, Cavaras 7/6, Bunn 7/5)
- 5020 UNID. 1132 SS, tkl & mx after SIIISS off (Lineback 6/24) Colombia is on at this time.
- 5020 SRI LANKA SLBC; 1350 Tamil, 1t Indian mx (Cosier)
- 5025 ECUADOR R. Splendit; 0400-0500\* SS, andean mx (Padula/Bunn-Tarra)
- 5035 COLOMBIA LV de Caqueta; 1049 SS, mx, tkl, ID (Miller 7/3) 0420-0500\* SS speeches (Padula/Bunn-Tarra)
- 5038t CENTRAL AFRICAN REP Bangui; \*0430-0445, NA, tkl, mx (Mitchell 6/14)
- 5040 COLOMBIA R. Cinco; 0830-1015 SS, mx, mx, tkl (Tannenwald, Jones)
- 5040 UNID. 0218-0235 SS, LA mx, brief tkl by M. Could this be R. Cinco up to 5040 again? (Moritz 6/6) The above gentlemen say yes!
- 5040 PERU R. Libertad de Junin; 0245-0700 SS, Andean mx (Willis/Cosier)
- 5041 GUINEA-BISSAU R. Bissau; 0635-0705 FF, slow native mx, speech in lang by W (Padula/Bunn-Victoria 5/28) 6/12
- 5045t BOLIVIA R. Altiplano; 0301-0320 SS, tkl, Bolivian mx (Davenport)
- 5047 TOGO R. Togo; \*0528-0545 FF, mx, tks, Afr mx (Cain 6/23, Clare, Lausevich 6/28, Padula/Bunn-Victoria)
- 5047 JAVA RII Yogyakarta; 1245 Indo, weaker than expected (Davis 6/12)
- 5057 ALBANIA Gjirokaster; \*0357-0415 HS in Albanian (Padula/Bunn-Vict.)
- 5060 ECUADOR R. Mac. Progreso; 1050 SS, mx, song & TC (Jones 6/16)
- 5075 COLOMBIA R. Sutatenza; 2350-0400\* SS, mx, mx, ID's, brief tks, NA at s/off (Drennan, Turner, solitho, Thompson, Cain)
- 5095 COLOMBIA R. Sutatenza; 0005 SS, mx (Bolitho 6/18)
- 5165 CHINA RF; 1250 CC, mixed chorus mx (Deal 6/16)
- 5205 SUMATRA RII Pakanbaru; 1246 Indo, in tklng (Davis 6/12)
- 5886 SUMATRA RII Pakanbaru; 1250 Indo (Davis 6/12) pfm details?
- 5930 CZECHOSLOVAKIA R. Prague; 0151-0322 EE, cmntry (Kozimiowski, Cain)
- 5930mf SPAIN RNE; 2130 SS, mx (Snyder 5/21)
- 5955 COSTA RICA R. Casino; 0330-0502 SS, EE EL vocals, TC's, ID's, LA mx (Jones 7/8, Moritz 6/25) Victoria)
- 5955 BRAZIL R. Gazeta; 2315-0015 FF, anncmnts and pop mx (Padula/Bunn-Victoria)
- 5960 PERU R. Nacional; 0640 SS (Cosier 6/10)
- 5960 CANADA CBC NS; 0130-0410 EE, mx, wx, sports (Cain, Snyder)
- 5962 COLOMBIA LV de las Centauros; 0700-1008 SS, tkl mixed with short mx selections (Moritz 6/14, Murphy 6/20)
- 5965 BRAZIL R. Guaiba; 2340-0100 FF, cl mx, tkl (Padula/Bunn-Tarra, Zilmer 7/2) 0512 FF, mx, ID (Cain 6/26)
- 5965 SWITZERLAND SBC; 0145-0205 EE, Dateline pfm (D'Anzelo, Mark, Snyder)
- 5970 PERU R. El Sol; 0610\* SS, LA tunes (Cosier)
- 5975 IRIAN JAYA RII Nabire; 0849 Indo, 1t mx, ID (Cosier)
- 5980 LEBANON R. Lebanon; 1602 AA, tkl, ID, mx (Junqua-Japan 6/16) 0415-0430 AA, songs and anncmnts (Padula/Bunn-Victoria)
- 5980 COLOMBIA Rdif. Nacional de Colombia; 0300 SS, ID by W, tkl (Jones)
- 5980 PERU R. Panamericana; 0615-0701 SS, ballads, tkl (Cain, (P)Cosier)
- 5980 SOUTH AFRICA NSA; 2238-2258 EE, world mx. Is on this freq to NA rather than printed 4675 (Zarhart 6/29)
- 5985 ARGENTINA R. Splendit; 2320-0001 SS, tks, EE songs, mx, ID, songs and more mx (Padula/Bunn-Tarra)
- 5985 PAFUA NEW GUINEA R. Sabaul; 0625-0635 rldpin, local singers, guitar and anncmnts. Extended svc this day (Padula/Bunn-Tarra)
- 5987 SUMATRA RII Penado; 1253 Indo, EL vocals (Davis 6/12)

- 5990 ROMANIA R. Bucharest; 0000-0043 SS, tlk, ID, IS (Zilmer, Schwartz)  
 5990 JAPAN R. Japan; 1200-1215 SE, nx, cmtry (Thompson 7/7)  
 5995 VATICAN Vatican Radio; \*0058-0115 EE, IS, mx, ID, rel tlk, nx (Gavaras 7/8, Snyder 6/24, Schwartz, D'Angelo)  
 5995 AUSTRALIA ABC Lyndhorst; 0830-1059 EE, ID, nx (Davenport, Cain)  
 5995 MALI R. Mali; 0740 FF, Afr mx and chants (Cosier)  
 5995 MARTINIQUE FR3; 0910-0940 FF, nx, mx. Time not per RTWH. Very poor (Lausevich 6/5) Sure it wasn't Mali on late?  
 6000 BRAZIL R. Inconfidencia; 2330-2340 IF, nx (Iadula/Bunn-Tarra)  
 6005 AUSTRALIA RA; 1400 EE, Superb lvl (Cosier) 0743-0922 EE, top 40, mailbag pgm (Murphy, Hall)  
 6005 ASCENSION I BBC; 0630 EE, sports nx (Hall 6/25)  
 6006 COSTA RICA R. Releoj; 0037-0046 SS, mx (D'Angelo 6/11)  
 6005 W. GERMANY RIAS Munich; 2330 GG, nx (Hywarren)  
 6010 E. GERMANY RFI; \*2315 IF, IS, tlk, mx //6040 (Zilmer 7/1)  
 6010 VENEZUELA R. Los Andes; \*1031 SS, SA, ID, nx (Jones 7/1)  
 6015 PARAGUAY Em. Paraguay; 2335-0015 SS, nx (Iadula/Bunn-Tarra)  
 6015 VATICAN Vatican Radio; 0051-0100 EE to 5Am // 5995 instead of 6105. Testin here but much weaker than 5995 (Hauser)  
 6025 PORTUGAL R. Portugal; \*0230-0300 EE, ID, nx, mx (Thompson, Murphy, Raper, Gavaras, Glazzy) 0500-0528 EE, chimes, nx (Hauser, Cain)  
 6030 W. GERMANY Sueddeutscher Rundfunk; 2300 GG nx (Hywarren) 0500 GG ID (Willis/Cosier)  
 6030t IRAQ R. Baghdad; 0433-0505 Kurdish, AA mx, annmnts (Cain 6/27)  
 6035 LIBERIA VOA Monrovia; 0555 EE, C&W mx (Beal 6/28)  
 6035 BOLIVIA R. Panamericana; 1042 SS, W with ID, mx (Jones 7/6)  
 6040 E. GERMANY RFI; 0033-0044 SS, nx by M, ID (Cain 6/27)  
 6045 FERU R. Santa Rosa; 0315-0350 SS, ID, tlks, song (Iadula/Bunn-Vict) 0648 SS, mx, annmnts (Cosier) 1032 SS, ID, ad string (Jones 6/11)  
 6045 BRAZIL R. Clube Paranaense; 0740-0930 FF, ads, ID, mx, tlks (Jones, Bishop 6/15)  
 6045 URUGUAY Rdif. del Uruguay; 0015-0050 SS, nx reports, echo annmnts and ads. Best catch probably of our DX-medition. To my knowledre never before been hrd in Australia (Iadula/Bunn-Tarra)  
 6045 FRANCE RFI; \*0459-0504 FF, IS, pgm to N Afr (Krueger 5/13)  
 6045t GREECE Athens; 0449 lang, tlks by n. id-east type mx (Cosier)  
 6055 JAPAN NHK; 0915-1100 SE/JJ, DX pgm, tlks (Cain 6/29)  
 6055 BRAZIL R. Panamericana; 2325-0050 IF, ads, mx, jingles, chimes, strong sigs (Iadula/Bunn-Tarra)  
 6060 ARGENTINA R. Nacional; 0808-0850 SS, nx, ID, mx (Tannenwald, Cain) 0050-0100 SS, Fast SS nx reports, TC (Iadula)  
 6065 COLOMBIA R. Super; 0635-0700 SS, LA mx, ID's (Bishop, Murphy) 1153 SS ads, "noticias" (Miller 7/3)  
 6065 SPAIN RNE; 0150-0341 EE, nx, mx, tlks (D'Angelo, Cain, Snyder)  
 6075 W. GERMANY DW; 0128-0150\* EE, IS, ID, nx, tlks, orch mx (Thompson)  
 6082 FERU R. Nacional; 0921-0938 SS, Peruvian mx, ID (Jones 6/16)  
 6085 W. GERMANY DW; 0340 GG, ID, nx //6145 (Cain)  
 6090 LUXEMBOURG RL; 0039-0050 EE, rock mx, ads, ID (Schwartz, D'Angelo, Borel 6/10)  
 6090 AUSTRALIA ABC Sydney; 1115 EE, nx, mx, sports (Yajko 6/20)  
 6090 NIGERIA RTV Kaduna; 2305-2311\* Nausa, tlks, chanting (Iadula)  
 6095 BRAZIL Rdif de Sao Paulo; 0917-0939 FF, tlks by M (Barto)  
 6100 MALTA DW; \*0130-0150 EE, NAm svc, nx, current affairs (Thompson, D'Angelo, Caffin 6/30)  
 6100 MOROCCO RTVM; 2122-2127 AA, chanting & mx, W talking (Moritz 6/17)  
 6105 NEW ZEALAND RNZ; 0840-1030\* EE, nx, wx, mx and annmnts. ID as the National Fm of RNZ (Barto 6/12, Zilmer, Hutchins, Jones 6/10)  
 6115 CONGO RTVC; 2240-2300 FF, tlk, variety pgm (Cosier, Mayer 7/2)  
 6115 COLOMBIA LV del Llano; 1018-1119 SS, tlks, LA mx, ID (Miller 6/26, Moritz 6/16, Yajko 6/20)  
 6115 FERU R. Union; 0145 SS, sports pgm, annmnts (Iadula/Bunn-Tarra)  
 6120 ARGENTINA R. El Mundo; 0800 SS, ID (Cain) 0001-0100 SS, annmnts, ballads (Iadula 6/19)  
 6120 COLOMBIA R. Super de Cali; 0625-0944 SS, mx, ID's (Tannenwald, Cain, Jones 6/10)  
 6120 SWEDEN R. Sweden; 2300-2330 EE, opera mx, tlk (Mayer 6/19, Snyder)  
 6123 FERU R. Cronica; 0655 SS, EE mx, ID (Cain 6/27)  
 6125 HONDURAS R. Suyasa; 0027-0032 SS, many ID's by M, carryin on by M, LA mx (Moritz 6/10)

- 6125 BRAZIL R. Nacional Sao Paulo; 0918-0930 PF, vocals, ads (Barto)  
 6130 GHANA GBC; 2128-2230 EE, nx by W. ID, mx (Miller, Moritz, Cosier)  
 6135 SWITZERLAND SBC; \*0145-0215 EE, ID, mx, cmtry (Bogel, Snyder, Murphy, Koziomkowski, Thompson)  
 6135 TAHITI R. Tahiti; 0445 PF, notice mx (Brookwell 6/25)  
 6145 W. GERMANY DW; 0200-0215 GG, IS, ID, nx (Schwartz 6/3)  
 6155 SINGAPORE RS; 1115-1145 Malay, Asian type mx, w hostins, time pips at 1130 followed by nx by W (Moritz 7/4)  
 6155 AUSTRIA ORF; 0055 GG, cmtry (Schwartz 6/8)  
 6155 BRAZIL R. Cultura da Bahia; 0815 FP, many ID's, lcl mx (Zilmer 6/27)  
 6155 JAPAN PEN; 1000-1015 EE, nx, wx, mx, ID (Cain 6/27)  
 6160 COLOMBIA Em. Nueva Granada; 1036 SS, ID, LA mx (Yajko 6/20)  
 6160 CANADA CKZN; 0831 EE, wx, mx (Jones) 2001 EE, nx (Hutchins 6/22)  
 6165 VIETNAM Saigon; 0830-1500 Vietnamese (Willis)  
 6165 NETH. ANTILLES RN Bonaire; 0200-0300 EE, nx, "DX Jukebox", ID, TC, IS (Koenig, Raper, Welch, Murphy)  
 6170 MOROCCO RTVM; 2135-2248 AA, mx, nx maybe, chant (Hutchins 6/21)  
 6170 COLOMBIA LV de la Selva; 0945 SS nx (Hauser 6/22) \*1057 SS, ID, call freq's (Jones 6/13)  
 6175 COSTA RICA Faro del Caribe; \*1100 SS, ID, call, freq (Jones 6/13)  
 6175 CANADA RCI; \*0400 EE, opening of US transmission (Brown 6/21)  
 6180 VENEZUELA R. Turismo; 0954 SS, s/on as 970 stn (Hauser 6/22)  
 6180 ARGENTINA R. Nacional; 0700-0708 SS, jazz mx, ID (Cain)  
 6180 GUATEMALA R. Nacional; 1758-2245 SS, EL mx, nx (Krueger, Cain)  
 6185 BRAZIL R. Bandeirantes; 2341-0100+ PF, tlks, guitar mx (Fadula/Bunn)  
 6185 ETHIOPIA R. Ethiopia; 1538 Tri-rigna pm, 7 pips & nx at 1545, IS, ID and into Oromo pm (Junqua-Japan 6/16)  
 6190nf COLOMBIA LV de los Centauros; 0727-1030 SS, ads, tlks, mx, many ID with mention of Centauros. A move from 5962 (Jones 6/22, Zilmer 7/2, Hauser 7/6, Cain 6/27, Tannenwald, Hywarren)  
 6195 CHILE R. Nac. de Chile; 0600 SS, peppy LA mx (Beal 6/28) 1034 SS, ID, then LA mx (Zilmer 6/25)  
 6195 NIGERIA NBC Sokoto; 0537-0556 Hausa(?), lcl type tunes, EE nx at 0545, then back to mx (Moritz 7/3)  
 6200 ALBANIA R. Tirana; 0330 EE, s/on with propoganda (Cain 6/27)

Please excuse the mistakes that are probably present this month as I really had to hustle to finish the column. A tennis tournament and vacation cut my time kind of short. See you all next month for my swan song and will then turn LRB over to a super DXer, Sam Barto.

73's  


HELPING HAND: Wanted. Urgently need a dedicated typist who is willing to devote a couple hours per evening for several summer days...about two weeks total. Involves compiling a list in frequency order. A project needs completion quickly. Write Ed Shaw, P.O. Box 7053, Lexington, KY 40502 now!

HELPING HAND: More tapes available. If you enjoyed the last few recordings offered in JUNE-FRENDX, you'll love these. Excellent 5555 level recordings of Southern African stations rarely heard in NA: R. Lesotho, R. PAX, SMR, RBC, MBC, LM Radio in EE and PF and R. Tanzania. These recordings were made in Manzini, SWAZILAND and offer some very interesting listening. 5 I.R.C.'s or \$2.00 to Dan Robinson, LR-A Editor.

HELPING HAND: For Sale, Eight Brand New PHILCO 30 tubes. In box ready for mailing. Best offer over \$20 takes it all. Respond to, Ed Shaw, PO BOX 7053, Lexington, KY 40502.

HELPING HAND: Joseph E. Koenig, Sr. 18 Grant Street, Elmwood Park, NJ 07407 would like info and, if possible, a schematic diagram on a Hallicrafters S-40 with a view toward reconditioning one. Is it worth it?

HELPING HAND: If anyone has a manual for the Philips radio No. 74849, type: L6X 38T02, I would like to borrow it for photocopying. Prompt return promised and I'll pay mailing costs. Contact Pitt McNeil, 3723 T. St. NW, Washington, DC 20007

## SECTION "C"

## Log

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6201-11700

## Report

DEADLINE: 12TH OF MONTH



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

- 6208 ITALY Gamma Radio; ID's in Italian and EE, European & USA pops, time check, male & female announcers, more music than talk. On the air 24 hours a day. Not at sea... I saw the studio offices while visiting Milan last month. A semi-legal station so not really a pirate. (Wootten-Italy 6/16). Fantastic Charles!!!
- 6908t VIETNAM Viet Bac; 1255 VV. Was not Hanoi (either of two Home services) nor Tay Bac or Tay Nguyen. No //s traced. (Willis-Australia).
- 6994.7 CHINA R. Peking; New Frequency. 1200-1255 EE pgm. Unid. sta. on 6993(Willis-Aust.)
- 7010 CHINA R. Peking; 1950 w/local mx, Id at 1954 in what sounded like Romanian. Off at 1957. Definitely not FF! 2000 in German. (Wootten-Italy 5/30).
- 7050 EGYPT R. Cairo; 1958 AA w/"Sout-El-Arab" pgm (Wootten-Italy 5/30).
- 7055 CHINA R. Peking; 2006 FF mx w/political cmtry or discussion of mx. Not normally sked until 2030, revised sked due to DST in France? Such good signal could be Tirana relay. (Wootten-Italy 5/30).
- 7057 INDONESIA RRI-Jakarta; Indonesian w/Jakarta Khusus pgm 1100-1115 (Cain 7/3).
- 7065 ALBANIA R. Tirana; 2014 FF w/political dialogue on 'five points of "La Revolution". not // normal 9480. Noted in EE at 0645 GMT. (Wootten-Italy 5/30).
- 7075 EGYPT R. Cairo; 2019 AA w/interview. Subject was unknown. //9475(Wootten-Italy 5/30)
- 7080 ALBANIA R. Tirana; RR 0420-0427\* w/political dialogue & Id at 0425(Wootten-Italy).
- 7104.5 INDIA AIR; nf 1450 EE w/news (Willis-Australia).
- 7105 ASCENSION ISLANDS BBC Relay; 0300-0340 EE w/news about Britain, etc. (Snyder, Thompson 7/7). 0432-0444\* FF nx. At 0445 noted definite antenna change as signal carrier increased by 3 S-Units (Wootten 5/31).
- 7110 MONACO TWR; 0742 EE Id & Religious pgm (Dunn 7/5).
- 7110 GREECE VOA-Rhodes; 0447 AA w/mx & info. Definite Id (Wootten-Italy 5/31).
- 7115 GERMANY (west) R. Free Europe; 0450-0504\* w/mx, Id, nx & Id as "Itt a Szabad Europa Radio" at 0500 in Hungarian. (Wootten-Italy 5/31).
- 7120 ALBANIA R. Peking; 0330 EE w/news (Snyder 5/17).
- 7130 TAIWAN BCC; 1450 CC w/exotic CC mx on stringed instrument (Beal 6/15).
- 7135 FRANCE RFI; 0510 FF w/ID, pop mx, address, etc. (Wootten-Italy 5/31).
- 7150 USSR R. Kiev; 0308 EE w/cmtry. Fair (Koziomkowski 6/29).
- 7155 JORDAN R. Jordan; 0520 AA w/tlk & mx. No sign of R. Liberty at this hour(Wootten).
- 7165 ETHIOPIA ETLF; 0330 w/Drum IS, EE Id, Swahili pgm. Poor signal (Gavaras 7/8). 0358-0425 EE w/ID, freqs, etc. Off at 0425. HAM QRM. (Dunn 6/10, Clare 6/16).
- 7165 RYUKYU ISLANDS VOA; 1240-1315 EE nx, jazz & orchestra mx (Thompson 6/30).
- 7170 NEW CALEDONIA R. Noumea; 0605-1100\* FF w/fast pop mx (Gavaras 7/6, Clare 6/12, Koziomkowski 6/16, Schwartz 6/21, Zilmer 6/21).
- 7170 GREECE VOA-Kavala; 0300-0400 EE w/world nx, cmtry, Science Digest (Hall 6/25).
- 7190 YEMEN DYPS; 0300 AA w/National Anthem, tlk by man, chanting. VOA QRM!(Gavaras 7/8).
- 7190 BENIN (formerly called Dahomey) Rdf Benin; 0640-0700\* Vernac. chanting, instrumental mx, 0700 nx, Id, etc. (Coiser-Australia 5/30 & 6/12).
- 7195 LIBERIA VOA; 0530 EE w/Breakfast show. Unusual thing about this is VOA is also on 7200. Talk about Frequency Spectrum Hogging. (Wootten-Italy 5/31).
- 7200 GREAT BRITAIN VOA; 0305 EE w/nx(Latest sked lists 7200-Wofferton) HAM QRM(Gavaras).
- 7215v HUNGARY R. Budapest; \*0200 EE nx, cmtry, etc. // 9833 (Woltman 6/22, Zilmer 6/22), Koenig 6/11, Welch 6/6). 0300 EE ID, nx (Koziomkowski 6/8).
- 7220 ZAMBIA R. Zambia; 0648 Vernaculars w/talk & Id. Poor signal (Koziomkowski).
- 7225 MOROCCO R. Morocco; 0526-0538 AA mx & tlk by woman. Fgm style leads me to believe this is Morocco. Could be Field's unidentified in April LRC.(Wootten-Italy 5/31).
- 7225 PHILIPPINES FEBC; 1245-1315 Indo tlk, orchestra mx. 1300 Japanese(Thompson 7/2).

- 7235 AUSTRALIA RA; 1030+ EE w/top 40 mx//7220, 5995 (Miller 6/20, Zilmer 6/21).
- 7237rf MONGOLIA R. Ulan Bator; ex 5960 1300+ CC w/external pgm, 1330 Mongolian, 1400 CC, 1430 Mongolian // 7262 (Cosier-Australia, Willis-Australia).
- 7260 TAIWAN V. of Chinese Air Force; 1040 CC tlk & mx under Jammer (Coiser-Australia).
- 7261rf MONGOLIA R. Ulan Bator; ex 4948 1300+ CC w/external pgm, 1330 Mongolian, 1400 CC, 1430 Mongolian // 7237 (Willis-Australia).
- 7264rf PAKISTAN R. Pakistan; \*1330 w/ID's & Urdu ID (Willis-Australia).
- 7265 GERMANY (WEST) Radio Bremen; 0105 GG end of nx followed by a positive ID! Many ID's. Believe that numerous GG station are utilizing the freq, as there are other ID's (Sueddeutscher Pundfunk at 0400 6/23). What gives? (Dunn 7/5). Anybody else hearing this -editor-. #budwestfunk; 0310 GG pop mx, id (Schwartz 6/3).
- 7275 TUNISIA RTVT; 0600 AA w/definite id, news, short orchestral fanfare prior to each nx item (Wootten-Italy 5/31). 2240 AA chanting, AA ID, National Anthem, off-air at 2334. Poor signal (Gavaras 7/7, Newman 6/23).
- 7275 NIGERIA VON; 0547-0630+ EE nx, African mx. Heavy QRM! (Glazzy 6/23, Hall 6/25).
- 7280 LIBERIA VOA; 0647 EE w/talk about Monrovia (Clare 6/19).
- 7300 ALBANIA R. Tirana; 0040-0056\* Albanian Id, melodies, anthem (Gaffin 6/22) \*0230-0255\* EE ID, nx, cmntry on agricultural economy in the world (Glazzy 6/19).
- 7345 CZECHOSLOVAKIA R. Prague; 0100 EE nx (Fryou, Earhart) 0300+ EE nx on Lebanon (Koenig)
- 7490 USSR (Nikolayovsk on Amur) Mayak; RR w/Mayak pgm. USB Denver 1600 (Brookwell 6/14).
- 7500 AUSTRALIA VNG TIME STATION; 0644 w/time pips & Id //12000 (Clare 6/12).
- 7512 VIETNAM Tay Nguyen; VV \*1046 (Don't know if this is normal s/on time though (Willis))
- 9009 ISRAEL IBA; \*0215 after usual IS, early s/on to announce Uganda raid, Hebrew HS "B", no //s so presume rest of technical staff still trying to get to unexpectedly early work, announcements by W 0215, lively pops & Israeli mx, more announcements as situation cleared, picked up by local MW stations in N.Y. to give flashes to NYC audience. Good but weakening to 0430 fade/out (Magne 7/4). \*2000 EE nx and features to Africa // 9815, 11645 (Cohen 5/23, Yajko 6/25).
- 9022 IRAN VOI; 2000-2020 EE Id, nx, cmntry on events in Iran, mx (Welch 6/5).
- 9360 SPAIN RTVE; 2351-0014 SS mx, news at 0000. Excellent signal (D'Angelo 6/14).
- 9435 ISRAEL IBA; \*2230 EE nx, cmntry on hijack, Hit Parade//9815, 11625 (Hutchins 6/29).
- 9445nf PAKISTAN R. Pakistan; ex 9780 w/World Svce to United Kingdom, mx, EE tlk 2140 (Padula)
- 9455 EGYPT R. Cairo; 0435-0445 AA tlk on Lebanon. Fair signal (Gaffin 6/21).
- 9475 EGYPT R. Cairo; \*0200-0320 EE w/Arab mx, Id, etc. (Aston, Bogel, Murphy, Gessell, Gavaras, Woltman, Jones).
- 9480 ALBANIA R. Tirana; 2030-2050 EE w/anti-US yak, Ids, etc. Good signal (Sarrazin6/29)
- 9500 USSR R. Magadan; 0500 RR w/time pips, Organ IS, tlk by man, Id. Albania QRM. (Gavaras 7/7). 0400-0800 Magadan RR & Lang. 0430 R. Moscow IS & ID in EE, 0500 QRM from Albania, 0600 Unid. USSR IS after 6 pips (6 note gong, 4 notes high to low, last 2-notes off key. Pgm or QTH??), 0630 R. Moscow relay organ IS & "Govorit Magadan", 0700 Unintelligible ID into 15 min. sustaining mx., 0715 15 min. of tlk by man in RR, 0730 15 min. sustaining mx, 0745 15 min. of tlk by woman in RR, 0800 ID as Radyostansiya Unik (Young Peoples Hour taped in Moscow). (Brookwell 7/6) WOW!!
- 9500 ALBANIA R. Peking; \*2300 SS opening to S. America, IS, ID, News (Brown 6/23).
- 9505 PERU R. America; 0144-0155 SS "La Capital de musica la Peru" by a man in SS tlk between La MOR vocals. Strong, w/long SS tlks by man (Moritz 6/10). 0303 SS "Veinte minutos de amor", mx pgm, ads (McCoy).
- 9505 JAPAN NHK; 1600-1630 EE/JJ General Service, nx, cmntry (McKrell 6/5). 1700-1715 EE w/ID, freq., orchestra mx, cmntry. 1715 Japanese (Thompson 7/6).
- 9505 SPAIN RTVE; 2130-2230+ EE nx, mx, etc. to Europe (Yajko, Zilmer, Snyder, Drennan).
- 9510 VENEZUELA R. Barquisimeto; 1600-1612 SS Id giving calls & freqs. V.Good (Krueger).
- 9515 AUSTRALIA R. Australia; 0745 EE w/mailbag pgm (Murphy 6/20). 1109 EE w/world nx, Focus on Australia (Woltman 6/30). 1400 EE w/ID & nx (Rojewski 6/5).
- 9515 TURKEY TRT; \*2200-2320+ EE nx, Id, World of Jazz. (Snyder, Brown, Schwartz).
- 9515 MEXICO LV de America Latina; 1835 SS OM w/ads, Id. Fair Signal (Mayer 6/20).
- 9520 PAPUA NEW GUINEA NBC-Port Moresby; \*0554-0630+ EE sign-on w/mx ("Obla-din Obla-do", & "Just Help Yourself"), Id, mx, cmntry on literature (Gavaras, Clare, Glazzy).
- 9525 CUBA R. Havana; 0634-0658 EE w/nx & Cuban mx (Hall 6/25).
- 9525 INDIA AIR; 2145-2210 EE mx, Id, nx (Welch 6/6).
- 9525 SOUTH AFRICA RSA; 2137 EE w/Church Service, nx (Woltman 6/13).
- 9530 AUSTRALIA RA; 0646+ EE id, rock mx, etc (Poppin). 0800+ EE IS, ID, nx, relig. (McKrell).
- 9535 CANADA RCI; 0055 end of SS pgm to L. America, nx, Id w/freqs. (Cohen 6/3).
- 9535 SWITZERLAND SBC; 2120 EE w/DX Merry-Go-Round. GG pgm at 2130. Good. (Aston 6/12).
- 9540 POLAND Polish R.; 1600 with a news pgm (Snyder 5/21).
- 9540 CZECHOSLOVAKIA R. Prague; 0150 EE w/Hot Jazz (Brookwell 6/20). 0320-0340 EE Id, address, Czechoslovic Scrapbook\*. Excellent w/some QRM (Sarrazin 6/27).
- 9545 GERMANY (WEST) DW; SS pgm to L. America w/late Hits. Male Zaz (Brookwell 6/24). \*0530-0540\* EE nx, Saturday Mag., etc (West, Dubrick, Glazzy). 2045-2055 AA to N. Africa & Mid. East w/ID's, cmntry & general OM tlk (Trautschold 6/24). \*2300-2320 w/SS nx, cmntry. Good signal. (Gaffin 6/29).

- 9545 SYRIA R. Damascus; 2039-2100 AA Id, cmntry (Schwartz 6/21).
- 9550 FINLAND R. Finland; \*0300+ EE pgm on mx festivals. RHC QRM (Mark 6/28, McCoy).
- 9550 USSR R. Peace & Progress; 0150-0200 talk w/a poor signal (Nebron 6/14).
- 9550 USSR R. Moscow; 0200-0300 EE nx, mailbag, answers to my questions, etc. (Koenig 6/5)
- 9555 GREAT BRITAIN VOA; EE w/very weak signal. Not Scheduled. 0430 (Brookwell 6/20).
- 9555 LIBERIA ELWA; \*1210 w/African instrument and ID in EE & FF w/FF programming at 1215 (Field 6/11). -I have them listed for 9550! editor.
- 9560 ECUADOR HCJB; 0230-0300 EE w/DX Party Line (Thompson 7/4).
- 9562 PERU R. Nacional; 1830-1845 SS w/guitar mx, Id. Fair signal (Mayer 7/3).
- 9566 CHILE R. Nacional; RHC format w/one line read by a female, one line read by a male Id's as La Voz de Chili. 0215 (Beal 7/2).
- 9570 AUSTRALIA RA; 0701+ EE w/mail-bag, Id, nx on Idaho Dam break, etc. (Poppin, Leffler).
- 9570 NIGERIA R. TV Kaduna; 0605 Hausa w/nx via Long Path. fade-out around 0635. Not audible on 6090. (Padula-Australia 6/20).
- 9570 ROMANIA R. Bucharest; 0425-0430\* EE w/nx about Romania (Aston 6/9).
- 9575 USA AFRTS (Bethany); Discovered on this unauthorized freq. 6/20 at 0405 tune in; with PSA inserted into CBS nx; not audible on usual 9755, and I concluded that xmtr engineer had reversed the 5 and the 7 when punching up the freq! Must have been here since \*2300 6/19. Took 15 minutes for me to get their phone number from directory assistance, and less than a minute for engineer to check and jump up to 9755, with incredulity and gratitude. (Hauser). Outstanding Glenn!!!
- 9575 ITALY RAI; \*0100 EE Id, nx, mx. \*0120 FF (Gavaras, Davenport, Glazzy, Cohen, Drennan). 2330 II w/tlk & mx. Poor to Fair signal (Sarrazin 6/30).
- 9580 AUSTRALIA RA; 1130 EE Id, nx (Rojewski). 1250 EE mx, Id (Koziomkowski).
- 9585 JAPAN R. Japan; 1430-1500 EE nx, cmntry (Hancock 6/29).
- 9585 NEW ZEALAND RNZ; 0501 EE w/nx, weather, fast mx (Polka type). Good signal (Gavaras) 0600 good level w/relay of Home Service. (Willis-Australia).
- 9585 SOUTH AFRICA RSA; 2123+ EE w/tlk on grain prices, trip up amazon, Id, Panorama. (Bogel 6/11) 2225-2318 EE nx, Panorama, etc. (Davenport 6/2, Poppin 6/6).
- 9585 SOMALIA R. Mogadishu; 0310-0330 Somali w/typical local mx. Good (Mayer 7/5). 1840-1945+ Somali w/chanting, nx, stringed mx, Coke ads. (Newman, Krueger, Miller, Gavaras,
- 9585 HUNGARY R. Budapest; 0216-0230 EE DX nx (Nebron 6/21). 0324-0330 EE //Trautschold) w/DX pgm (Murphy 6/13). \*0400-0415\* SS w/Programa DX. Good signal (Gaffin 6/29).
- 9585 USSR R. Yakutsk; 2240-2249 RR w/RR Rock mx, Russian Comedian "2 eyes can see, 2 can't" (Poppin 6/3).
- 9590 CHILE R. Pres. Balmaceda; 0235 SS Id, S. America info., mx. (Sarrazin 6/27). 1030 SS w/local mx, ads, jingles, Id, Pop mx (Zilmer 6/18). 1135 SS Id. Weak (Field 6/11)
- 9590 NETHERLAND ANTILLES RN; 0330-0350 SS w/orch. mx, Id, nx, etc. (Thompson 7/7).
- 9593v BRAZIL R. Cultura de Bahia; 0110 w/sports (Field 6/11). 0135-0143 w/rapid PP sport event w/proverbial whistles, screaming, etc. (Moritz 6/10).
- 9595 JAPAN NSB; 1600-1630 EE w/tlk about Hawaii, mx, ad for Sato watches, Id (Hancock).
- 9600 ASCENSION ISLANDS BBC; 0815 EE w/World Radio Club (Zilmer 6/27).
- 9600 AUSTRALIA RA; \*1430 Tamil w/Id & Language Announcements (Larson 5/9).
- 9600mf SPAIN RTVE; SS w/GOS 2115-2125 w/OM tlk, mx. New Freq. (Trautschold 6/24).
- 9600 USSR Mayak; 1530 RR w/IS. Too weak to catch other Id's (Brown 6/19).
- 9600 UNIDENTIFIED; 0115 Ecuadorian (Andean) mx, then mx of organ, piano, classical or similar. No tlking between selections except at 0130 till tune out at 0200. Poor reception behind other stations (Field 6/11).
- 9605 VATICAN STATE Vatican Radio; \*0100 EE w/IS, ID, religious tlk, etc. (Gavaras 7/8, McClure 5/12; Mark 6/19, Welch 6/5).
- 9605 JAPAN NHK; 1830-1845+ EE nx, cmntry to Europe (Mayer 6/20, Newman 6/17).
- 9605 GERMANY (WEST) DW; 0130-0150 EE nx, Id, etc. (Zilmer 6/27, Sarrazin 6/27). 0300+ GG nx, Id, tlk. (Gesell 6/23, Bogel 6/15).
- 9605 SWEDEN R. Sweden; 2120-2130 FF pgm into EE 2130. Poor signal (Sarrazin 6/30).
- 9610 USSR R. Kiev; 0314-0330\* EE w/nx, interview a preacher, sports, etc. Announced // 15210, 12050, 11690, 11790, 9610, 7390, 7150. (Zilmer 6/30, Mark 6/28).
- 9610 AUSTRALIA ABC (Perth); 1020 EE Id & report of hijackers in Uganda (Schwartz 6/29). 1145-1200 EE tc, mx (Bolitho 5/28). 1515-1545 EE pgm (Snyder) 0715 EE tlk, mx (Bishop)
- 9612.5v INDONESIA RRI (Jayapura); \*0750 Indonesian announcements, mx, Id's. Fair to Good (Janqua-Japan 6/15). 0945 Indonesian nx, choral theme 0948, local ID by lady 0948 1/2 New Freq. (ex 11855), hetting KGEI 9615 & ABC 9610. (Padula-Australia 5/31+).
- 9615 MOROCCO RTVM; 2130-2140 AA mx & Chanting, some OM tlk, tent. Id at 2136 (Trautschold)
- 9620 MOZAMBIQUE R. Nacional; 0605 w/FP pops & FP announcements by lady 0607 then into ballads. Good level. Unusual to hear at this time of year at this time period. Heard via Long Path (Padula-Australia 6/20).
- 9620 GERMANY (EAST) RBI; 0125+ SS tlk, Id, nx, etc. (Mark 6/19, Tuhscherer 5/16).
- 9620 YUGOSLAVIA R. Belgrade; \*2159-2215\* EE nx, Id, etc. (Tuhscherer, Schwartz, Moritz).
- 9625 CANADA CBC N. Service; 0157-0215 EE mx, Id, Reports on Canada (Bishop).
- 9625t PERU R. Atlantida; 0223 SS. w/TL w/nx. Over CBC (Mayer 7/1).

- 9630 CZECHOSLOVAKIA R. Prague; 0123-0135 EE w/folk mx. Next day Spain was on (Noonan/16)
- 9630 SPAIN RTVE; 0400 SS cmntry, nx, Id. (Gesell 6/23).
- 9635 KOREA (SOUTH) R. Korea; 1300 FF. Erratic use of freq. Fine level (Willis-Australia).
- 9640 KOREA (SOUTH) R. Korea EE \*1530-1600 tlk on Libraries, sports, etc (West, Hancock).
- 9645 VATICAN CITY Vatican R.; 2035 EE relig. pgm, nx, IS into 2045 Lang. Good (Aston).
- 9645 NORWAY R. Norway; 0205 EE Features on weather in Norway. Good. (Cohen 5/24). 0223-0231\* Lang. Scandinavian mx, announcement ending w/EE ID (Noonan 5/15). 0358-0430 EE w/nx & cmntry by a man & female (Clare 6/20).
- 9645 COSTA RICA TIFC; 0300 EE w/religious pgm. V. Poor reception (Aston 6/12).
- 9650 CANADA RCI; \*0100-0125\* EE Id, nx & cmntry, sports, mag. show (McKrell, Bogel).
- 9655 USSR R. Moscow; 1245-2330 Ending R. Vilnius in Lang, into IS, ID for R.M. EE in N. America Service. Mixing w/RCI PP service. Is this Orsha or Nikolayev??? (Moritz/6/28)
- 9655 USSR R. Vilnius; \*2230 EE pgm w/fair signal which quickly became worse (Larson 5/30)
- 9655 HUNGARY R. Budapest; 2130 EE nx cmntry to Europe (Zilmer 7/3).
- 9660 SOUTH AFRICA RSA; \*2000-2010 FF IS, nx to Africa. Fair w/Rumbos QRM (Mayer 6/12).
- 9660 AUSTRALIA ABC-Melbourne; 0600 EE Id, nx, wx, CW mx (Beal). 0830 EE Relig. Svt (Zilmer)
- 9665 MALAYSIA R. Malaysia; 1145-1200 EE w/nx, cmntry. Poor (Mayer 6/17).
- 9665t SEYCHELLES?? FEBA; 0340-0414 EE. Some Historic event. Many speeches, many mentions of New Republic of Seychelles. (Hancock 6/30). Would like more info, if possible-ed.
- 9675 CANADA Cf previous report of Unid; LN reporter James Mulvey, Seaford, NY heard it too, but w/an RCI IS interspersed, 6/24 at 0440. Wonder what they're testing & Why.
- 9675 PERU R. del Pacifico; 1100 relig. mx (Field 6/11). (Hauser)
- 9675 POLAND Polish R; 0207 EE nx (Zilmer 6/16).
- 9680 AUSTRALIA ABC-Melbourne; 0740-0815 EE ID, nx, wx, pops (Rojewski 6/25, Bishop 6/8).
- 9682 COLOMBIA Rdf Nac. de Colombia; 1129-1159\* SS "Musica Colombiana", Id. (Jones 6/27, Zilmer 6/20, Miller 6/26). 2149-2202 SS w/classical mx, ID, SA mx. Poor (Bogel 6/11).
- 9690 ROMANIA R. Bucharest; 2113 EE nx. Poor signal & lost in QRM (Aston 6/12).
- 9690 ARGENTINA RAE; 0300\* SS into EE pgm. Nx. U.S. Embassy press attache delivering Bicentennial message 7/3 0308, and then playing Star Spangled Banner, something you seldom hear on RAE. (Hauser, Jones, Dubrick). 0624-0631 EE Id, guitar mx (Poppin).
- 9690 AUSTRIA ORF; 1830-1900\* EE to Mid East under R. Bucharest. Poor (Newman 6/17).
- 9695 ASCENSION ISLAND BBC; 1700 EE w/IS, ID, freq, relay of nx (Rojewski 6/25).
- 9695 BRAZIL R. Rio Mar; 0000-0100 PP w/lengthy ID. Sign-off at 0100 accompanied by a tinkly piano (Schnabel). 0505-0530 PP mx & Id. Poor (Lausevich 6/13). 1830-1845 PP w/live futebal. Fair signal (Mayer 7/4).
- 9695 SWEDEN R. Sweden; 0230 EE nx, cmntry on theater for the deaf, sports, mx. (Beal 7/2, Dunn 6/14). 2300 EE w/IS, mx, freq., nx-Panorama. Fair signal // 11705 (Gavaras 7/7).
- 9700 BULGARIA R. Sofia; 0021-0045 EE Id, tlk, mx, tlk on Bulgarian History (Earhart 6/1, Bogel 6/16). \*0400-0430\* EE Id, nx, cmntry, sports, folk mx, tourist info (Dunn 6/8, Glazy 7/6, Cohen 6/3, Murphy 6/20, Koenig 7/4). \*1930-1940 EE nx (included a blast against RFE/R. Liberty, cmntry (Gaffin 7/1). 2145-2159\* EE mailbag, mx (Earhart 7/8).
- 9705 MEXICO R. Mexico; Hrd in fine strength at 1430. Time is a little late for us here SS announcements & usual mx (Willis-Australia). 2100\* SS Id, tlk, orch. mx (Thompson).
- 9715 CONGO RTVC; 1845-1900 FF OM w/nx. Fair signal (Mayer 7/3).
- 9715 HOLLAND R. Nederland; 2132-2240 EE nx, Dx Juice Box // 11730 (Bolitho 6/17, Bogel 6/15, Earhart 6/30). 2345 PP w/IS, Id, nx. (Sarrazin 6/24).
- 9725 USSR; 0634 (sounded) Korean. M & W dialogue w/mx. Announcements followed by mx. Heard mention of "Yakutsk". (Poppin 6/5).
- 9720 USSR R. Vilnius; 0045-0100\* EE mx, mailbag, Id, nx. (Drennan, McClure)-out of place-
- 9725 BELGIUM BRTH; \*2345 lang. 0015-0045 EE Id, nx, cmntry, DX Show, etc. (Mark 6/12). Drennan 6/27, Zilmer, Nebron 6/21, Yates 6/20, Earhart 6/7, McCoy).
- 9725 SWITZERLAND SBC; 0145\* EE w/Dateline, DX Pgm. Ann. // 5965, 6135, 11715. (Gavaras, Wingard, Sarrazin). 0430\* EE w/Dateline (McKrell, Clare, West, Bishop). // (Mark)
- 9730 GERMANY (EAST) RBI; \*0100-0145\* EE nx, cmntry. (Cohen, Aston, Yajko, Drennan, McClure,
- 9730 UGANDA UBC; 2029 EE w/nx about Israel rescue of hostages in Uganda. P. (Gavaras 7/7)
- 9735 GERMANY (WEST) DW; Surprised to hear EE on this all GG DW freq. 6/20 at 0357; it turned out to be taped greetings from visitors at DW Koln in EE & GG. One from Mexico City, another from Recife, in pgm "Unter Uns Gesagt" (Hauser).
- 9740 ARGENTINA R. Splendid; 0220\* SS tlk, Id, sports, ads. (Mayer 7/1, Zilmer 7/1).
- 9745 IRAQ R. Baghdad; 0228-0245\* AA HS w/Koran, Soft Bird-call IS. Fair (Newman 7/2). 1930 EE w/Bird IS, Id, mx (National Anthem), Id. Poor signal (Gavaras 7/7).
- 9750 JAPAN NHK; 0900 EE nx report. Severe QRM (Beal 6/14).
- 9760 GREECE VOG; 0030-0040 FF nx (Gaffin 6/22). 0019\* EE w/nx, Id, Greek mx (Gavaras 7/8, Bogel 6/15). 0220-0230 EE nx to Greek pgm (Dubrick 7/8). \*0630 w/fine level but the freq is occupied by other broadcasters. (Willis-Australia) Language??
- 9768nf KOREA (NORTH) R. Pyongyang; 1040 EE. Fine level (Willis-Australia). \*1100 RR (ex 9420) hetting R. Australia 9770. (Padula-Australia 6/9).
- 9770 AUSTRALIA R. Australia; 1252 EE Id, mx "What is Heaven?" (Poppin 6/5).
- 9770 GERMANY (EAST) RBI; 2209 EE & GG ID, IS & tlk in Lang. Unlisted (Zilmer 6/13).

- 9770 AUSTRIA ORF; 0126-0200 EE nx, topic "Did you know?" (Clare, Bogel, Wingard, Koenig, Noonan, Davenport). 0345-0555\* EE mx, tlk w/VOA (Greece) QRM (Earhart 6/26).
- 9770 GREECE VOA (Kavala); 0345-0420\* Breakfast show. Noted 6/20 w/message (not a nx item) that the American Embassy in Beirut urged all US citizens to leave Lebanon & giving phones 361-805 & 348-319 for more info. on how to get out (Hauser, Earhart, Sarrazin).
- 9770 HAITI 4VEH; 1155-1315 Rellig. pgm, Id, nx (Snyder). 1400-1405\* ID (Snyder 5/18).
- 9780 YEMEN R. Sanaa; \*0300-0305 AA w/wild flutes, IS, Id by OM into chants. Good (Mayer 6/19). 2107 AA w/tlk in believed AA. Poor signal (Gavaras 7/7).
- 9780 ALBANIA R. Peking; 0145-0155\* EE w/mx from China, sked. IS (Drennan 6/27). 0324-0355\* EE cmntry, criticism of Teng Shiao Peng. (Mark 6/22, Gaffin 6/29).
- 9785 USSR R. Moscow?; 0228 RR tlk by man//9800 (Larson 5/11). -Probably R. Sta Rodina-
- 9800 USSR Mayak; 0530 RR w/IS & tlk. Fair signal (Gavaras 7/7).
- 9805 EGYPT R. Cairo; EE \*2200-2315\* nx, cmntry, etc. (Drennan, Snyder, Raper).
- 9815 ISRAEL IBA; 2000-2030\* EE nx on rescue mission (Thompson, Nebron, Schneck, Schwartz).
- 9820 KOREA (NORTH) R. Pyongyang; 0615 EE Id, cmntry, revolution mx, KK mx (Poppin 6/9).
- 9825 ENGLAND BEC; \*0015 London Calling Asia in Burmese (Gearhart 7/5).
- 9833 HUNGARY R. Budapest; 0300 lang. into EE pgm. Id, nx (Beal, Bogel). 0405 EE DX pgm (Mark).
- 9850 UNID; 0358+ AA mx, chimes in to woman speaking in lang. (Mark 6/15). -How about Egypt-
- 9988nf VIETNAM (Hanoi); 1300-1700 VV//10224. This is the same freq. as the Voice of the United Front of Kampuchea used a year or so ago. (Willis-Australia).
- 10000 USA (HAWAII) VVWV; 0414-0429 EE time & Id at 0929 (Bishop 6/7).
- 10040 VIETNAM (HANOI); 1405 VV w/continuous tlk by YL (Beal)-Isn't CC sked. for this time?
- 10081 PERU R. Libertad de Junin; Harmonic 5040 X 2; 0200 SS. Fine level too (Willis-Aus).
- 10110 CLANDESTINE R. Espana Independiente; 1710-1720 SS tlk by OM, mx interludes YL tlk; //12140 (Trautschold 6/26). 2137 SS mx, tlks. Jammed (Bolitho 6/17).
- 11290 CHINA Central Peoples Bc. Sta.; 0430 CC, w sing song, tlk, Band mx. CW QRM (Brookwell)
- 11350 KOREA (NORTH) KCBS; H.S. 0504 w/KK Classical & Martial mx, tlk, nx. Bad Fade (Brookwell)
- 11505 CHINA CPBS; Sing song woman announcer, female singing (wailing) 0640 CC w/pulsating QRM (Brookwell 7/4). 0908-0915 CC mx & announcements (Clare 7/5).
- 11515 CHINA R. Peking; 1605-1645 in lang. Poor (Magne 5/16).
- 11535 KOREA R. Pyongyang; 1100-1149\* KK/JJ tlk, cmntry, mx (Schwartz 6/17, Zilmer 7/5).
- 11602 ISRAEL IBA; 2135-2310\* Hebrew tlk, mx, ads, nx, some EE records (Earhart, Zilmer).
- 11625 ISRAEL IBA; 2230 EE IS, ID, nx (Zilmer, Schwartz). 2325 EE cmntry (Beal 6/13).
- 11645 ISRAEL IBA; 2000-2100 EE nx, DX Corner (Woltman, Bogel, Schwartz, Mark, Zilmer, Glazzy).
- 11646.2 SOMALIA R. Hargeisa; 1459 Somali ID, anmts, local mx. Good level (Janqua-Japan 6/19)
- 11655 ISRAEL IBA; 1200+ EE "This Week in Israel" (Zilmer 6/22, Miller 7/5).
- 11670 PAKISTAN R. Pakistan; 2020 Urdu? w/Pakistanian mx. Fair signal (Yajko 6/25). 2100 EE. Their monitor says this is new nominal ex 11672 to escape QRM ex-75. Fair (Magne 6/27). 2104+ EE nx, cmntry, western mx 2146\* (Snyder, Cohen 5/23).
- 11680 GREAT BRITAIN BEC; 0416+ AA mx, 0435 nx, 0445 Big Ben (BBC Arabic Service). (Clare 6/14, Brookwell 6/21).
- 11685 CHINA R. Peking; 1215 EE nx, Id (Beal 6/22).
- 11700 DOMINICAN REPUBLIC R. Clarin; 0000 SS M & W w/nx. Fair signal (Sarrazin 7/3).
- 11700nf VATICAN STATE Vatican Radio; \*0000-0030\* SS or PP w/IS, ID, Bells (Mark 6/14). 0100 ES ID, IS, relig. pgm. Talked about church services at olympics. 0115 FF. (Earhart 7/2, Aston 6/11). Testing to N. America, noted at new time of 0030 6/14 w/EE catholic nx//5995. 0045 to open carrier, 0047 to IS (Hauser).

Thank you to all who contributed DX tips this month! I had a fantastic time at the Los Angeles ANARC convention! It was great to meet the West Coast DX-ers! Now I am off to Kentucky for the Numero-Uno meeting. Until next month, 73



RADIO AUSTRALIA

# Log

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# Report

11701+kHz

- 11705 JAPAN RJ: 2030-2045\* EE to NAM, Poor (K. Willis 6/28)  
11705 NEW ZEALAND RNZ: 0300-0450\* EE, Nat Svc to Pac (Zilmer, Underdown, Sarrazin, Rojewski, Poppin, Mark, Gesell, Earhart, Dunn, Caire)  
11705 SWEDEN RS: 2300-2330 EE, "Panorama," "SCDXers" (Gavaras, Miller) 0230-0300 EE (Bishop, Koziomkowski, Nebron, Raper, West)  
11710 FRANCE RFI: 2250 PF, cmntry, ID, Fair (Schwartz 6/28)/(Willis-AUST)  
11710 USSE RM: 1430 VV, no //s found-maybe dropped priority on VV pgm  
11710 ARGENTINA RAE: 2308-2322 SS, new SS DX pgm (Hauser 7/3-see review in LN); 2309-2350\* EE, tlk on women in Arg, mx (Earhart, Gesell, Aston); 2325-2357\* SS, MOR & Arg mx (Sarrazin 7/2)  
11715 SWITZERLAND SBC: \*0145 EE, nx, DX pgm (Aston 6/13); 0230 SS, mx (Brookwell); 0430-0500 EE, into II at 0500 (Sarrazin, Poppin)  
11715 VATICAN CITY: 0530 Latin Mass, ex 11740, Poor (Brookwell 6/16)  
11720 SWITZERLAND SBC: 2125-2130\* EE, to Eur&Af, "Dateline," (Snyder)  
11720 CHINA RP: 2046-2100 EE, ID, tlk on economy (Poppin)-not inEE sked  
11725 PHILIPPINES R Veritas: 1145-1200 VV, W w/ light mx, F (Mayer 6/22)  
11730 NETHERLANDS RN-Lopik: 2157-2230 EE, ltrms from listeners (Thompson) 1730 AA, ID w/ AA mx, Poor (Sarrazin 6/24)  
11730 MALAGASY REP RN: 2000 EE, wrld nx, (Snyder-5/21) / 6/21  
11730 SPAIN RTVE: 1200-1215\* SS, "Españoles en Ultramar," pgm (Gavaras, 11735 YUGOSLAVIA RB: 0059 weak IS blocked at 0100 by RM (Noonan 6/4)  
11735 USSR RM: 2330-0100 EE, RM into R Kiev at 0030 (K. Willis, Davenport, Brown) - recent QSL gives Vinnitsa for what that is worth!  
11735 UNID: 1645-1701, AA mx, tlk in lang, Poor (Bogel 6/17)  
11735 FRANCE RFI: 0605 PF, 2 M giving nx, QRM (Brookwell 6/25)  
11740 CYPRUS BBC: 0345 AA s/on, IS, AA songs, tlk (Brookwell 6/26)  
11745 KOREA RS: 1025-1030\* EE, tlk on Korean dance, ID (Schwartz 6/29) - this would be new freq for 1000-1030 EE to NAM? - ed.  
11750 ENGLAND BBC: 0625 EE, tlk on Hong Kong & oil prblms (Brookwell)  
11750 MALAYSIA BBC-Tebrau: \*0859 Lcl ID into WS, Poor (Underdown)  
11755 FINLAND RP: 1900 EE, nx to SE Eur, 250 kW, Poor (Zilmer 7/5) /shop)  
11760 USA UNR-Greenville: 2350-0012 EE, Security Council, under RHC (B1-11765 W GERMANY DW: 0300 SS, mx, nx, RHC QRM (Mark 6/19)  
11770 CZECHOSLOVAKIA RP: 0615, EE ID into Czech, nx, (Beal 6/13)  
11770 USSR R. Vilnius: 0055-0100 EE, Tlk, ID, Fair (Aston 6/14); 2331-0100 EE, R Moscow (Woltman 6/20)  
11775 SPAIN RTVE: 0145 SS, ID, political tlk, Good (Sarrazin 7/2)  
11780 AUSTRALIA RA: 0306-0500 EE, nx, mx (Murphy, Mark, Lineback, Koziomkowski, Earhart)  
11790A INDONESIA VOI: 0911 EE, cmntry (Clare 6/19); 1110-1202 EE into CC at 1200 (Miller, Bishop); 1415-1500 EE, nx, mx (Rojewski, Hancock); 2341-0000, EE nx, mx, cmntry (Poppin 6/3)  
11790 USA APTBS-Greenville: 1738 EE, military tlk, Good (Sarrazin 6/24)  
11795A COLOMBIA R Nac: 0200 SS, Orch mx, nx ( Sarrazin 7/2)  
11795 MALTA DW-Cyclops: 0210-0220 GG, nx, mx (Sarrazin 6/16)  
11795NF BRAZIL RNB: 2115-2145 EE, mx requests "Listener's Mailbag," ex 11780 (Zilmer, Padula-AUST, Earhart); \*1900 PP, ID, tlk (Beal 7/1)  
11800 ETHIOPIA ETLF: IS, ID, nx, tlk on morality (Hancock 7/1)-0529-0600  
11800 NETHERLAND ANTILLES TWR: 2258 IS, ID, PP nx (Padula-AUST, Brookwell)  
11800 CANARY ISLANDS RTVE-Tenerife: 2259-2315 SS, IS, ID for Tenerife, nx, Panorama (Bishop 6/9)- ex 15365? - ed.  
11805 BRAZIL R Globo: 0202 PP, screams, interview, Fair (Sarrazin 7/2)  
11810 ITALY RAI: 0100-0120 EE, 0120-0140 FF tho 1 reporter had II, 0140 II, to NAM (Sarrazin, Lineback, Dubrich, Aston, Alder); 2339-2345 II, ID, mx w/ EE song (Poppin 6/3)

- 11810 SEYCHELLES FEBA: \*0415 AA, IS, EE ID into AA tlk, Fair (Mayer 6/21)  
\*0405-0430, lang (Yates 6/18)
- 11810 UNID, 1145 EE, live cricket matches, no //s found, hrd several days  
BBC? (Mayer 6/17) - AIR on early? - ed. / Poppin 6/5)
- 11810 CHILE VOC: 1307-1323, FF into EE, requests comments (Krueger, 6/21)
- 11815 JAPAN RJ: 1357-1400+ IS, JJ?EE ID into EE nx (Lineback 6/10); 1615  
EE, nx abt Japan (Noonan 5/16); 2000-2015 EE (Hancock 6/29)
- 11815 BRAZIL R Brazil Central: 0204 PP, non-stop EL mx, Fair (Sarrazin)
- 11815 FOLAND PR: 0200-0230 & 0300-0330 EE, nx, cmntry, Fair to Good (Zilmer, Baper, Nebron, Mayer, Mark, Krueger, Hauser, Dunn, Clare, Aston)
- 11820 ASCENSION ISLAND BBC: 0130-0145+ SS, tlks (Sarrazin 6/16)
- 11825 USSR RM: 0600 IS into RR under Tahiti (Brookwell 6/7)
- 11825 SOCIETY ISLANDS PR3-Papeete: 1900-1915 FF & EE, nx, tlk about exchange of US dollars & francs (Thompson 7/6); 0150-0700 FF or Tahitian, pretty mx, nx (Yates, Glazzy, Brookwell, Bishop) / 6/1)
- 11825 TAIWAN VOPG: 1853-1913 EE, M&W in cmntry, CC classical mx (Clare)
- 11830 NETHERLAND ANTILLES TWR: 1235 EE, pgm on railroads (Koziomkowski);  
2220 FF, ID and Swiss address (Drennan 6/29)
- 11830 W GERMANY DW: 0730-0800 DW IS into JJ, possible DX pgm, unlisted (Brookwell 6/7) - not in recent BBCMS sked. DX pgm on 2nd Tues per WRTH & 6/7 is Monday? - ed. / Sarrazin)
- 11835 URUGUAY El Espectador, 0120-0215 SS, IDs, mx, nx (Yates, Lausevich, 11835 HAITI 4VEH: 0005-0033 EE, rel pgm (Welch, Schwartz, Bolitho);  
1325-1337 EE sermon frm CA (Barhart)
- 11835 ECUADOR HCJB: \*0230 RR, EE ID into RR, Fair (Sarrazin 7/2)
- 11835NF AUSTRIA ORF: 2255-2300 GG, to SAM, ex 11745, 4VEH co-channel (Padula-AUST 6/29)
- 11840 E GERMANY RFI: 0330-0415\* EE, NAM Svc, (Nebron, Mark, Alder)
- 11845 KUWAIT RK: 1730-2000\* EE, nx, ID, mx (Trautschold, Snyder, Drennan)
- 11845NF CANADA RCI: 0210-0220 FF, ex 11835 (Barhart 7/2)
- 11845 AUSTRALIA RA: 0400-0500, ID, annced freq, nx (Mark, Dunn)
- 11850 USA VOA-Delano: 1545 CC, EE lang lesson about Tom Sawyer, 1630-1700 EE, s/off at 1700 (Sarrazin)
- 11850 W GERMANY DW: 1000-1030\* EE, nx, cmntry to As (Zilmer 7/6)
- 11850 PARAGUAY R. Asuncion: 0220 SS, M & W tlks, violin mx Poor (Sarrazin 7/2) - not rp here in last 2 1/2 yr. listed 2 kW. Get good ID? - ed.
- 11850 USSR RM: 0140 EE to NAM (Padula-AUST); 0030-0035 EE, R Kiev, IS, ID, tlk abt visit of Mrs. Chandí (Bogel) - QSL says Vinnitsa - ed.
- 11855 SAUDI ARABIA BSKSA: 1935-1945, ID, mx (Snyder 6/25) - lang? ed.
- 11855 USA WYFR-Scituate: 0020-0600\* SS (Sarrazin 6/14)
- 11855 CANADA RCI: 2040 FF, 2115 EE (Sarrazin 6/13)
- 11860 S KOREA HK: 1130-1200 EE, nx, cmntry, mx, to Eur (Zilmer 6/26, Dunn)  
1306-1400 FF, into KK & EE ID at 1330 (Brown 6/26); 1810-1833 EE nx, cmntry, into KK at 1830 (Sarrazin, Noonan, Beal)
- 11860 NORWAY RN: \*0000-0030\* EE, "Norway This Week" (Sarrazin, Mark);  
0400-0430, //9645, EE (Sarrazin) - Sunday only are Monday GMT for these times - ed.
- 11865 BRAZIL R Clube Pernambuco: 0100 PP, ads for "salvavidas," - Lifesavers, echo annmnts, excited DJ (Brookwell 6/26)
- 11865 CUBA HHC: 2135\* EE, Fair (Sarrazin 6/13)
- 11870 NORWAY RN: 0350 NN, 0425-0430\* EE, 0500-0610 NN into EE at 0600 (Sarrazin, Lineback, Gesell, Clare, Beal) - EE GMT Monday only
- 11870 BULGARIA? R Moscow: 0530-0600 Svc (Brookwell); 2316-2330 EE NAM Svc (Murphy) - June LN5 has Nikolayevsk for 0300-0700 & my RM sked list Pac Coast Svc. 2300-0300 GMT may be Bulgaria tho my recent QSL wishfully show Kaunas, Lithuania - ed. / 6/21)
- 11875 CANADA RCI-Sackville: 1520-2530\* Ukrainian, Press Review (Gaffin)
- 11880 TURKEY VOT: 2230-0030\* EE, DX pgm, mx (Snyder, Drennan, Clare, Bishop); 1742-1800 TT ME mx (Sarrazin 6/24)
- 11880 SPAIN RTVE: 0100-0400 EE, to NAM (9 reporters)
- 11885 PORTUGAL RFE: 0520-0545 Czech, tlk (Brookwell 7/4) - site per WRTH
- 11885 BRAZIL R Maua: 1426 PP, only Brazilian audible, Bossa-nova mx, (Hauser 6/26)
- 11885 ECUADOR HCJB: 0100 EE, to SAM, sked to 0230, //11915 (Aston 6/13)
- 11890T OHAN Muscat: 0230-0235 AA, faint AA mx, VOA splatter (Mayer 6/16)
- 11890 PHILIPPINES PEBC: 1123-1130\* EE, mx, s/off in mid ID (Bishop)
- 11890 E GERMANY RFI: \*0330-0415 EE, into GG til 0500\*, to WCNA (12 rp)
- 11910 HUNGARY RB: 0200-0220 EE, nx, pgm on July 4th (Zilmer, Dunn)
- 11915 ECUADOR HCJB: 0230-0300 EE, DX Partyline w/ plug for NASWA & reading part of "Keep IT Quiet," (Bishop, Murphy, Thompson)/(Beal)
- 11915 ENGLAND VOA-Wooferton: 1645 lang, ID in EE, Into Romanian at 1700

- 11910 ETHIOPIA ELTF; 1943-1946 EE, lang into EE & FF ID into EE rel pgm Poor, out of order (Overcamp 7/24)
- 11920 USSR Mayak; \*2200-0500\* RR, ID hrd as "Govorit Radio Santo Riga" V Strong (Mark 6/19-24)- doubt this is Latvian tx since only listed SW tx is on 5935 - per BB MS 5/76 - "Santo" may be "stansya" ?
- 11925 GREECE VOA-Kavala; 0420 EE, nx, QRM frm RHC & above (Mark 5/19)
- 11925 NETHERLAND ANTIILLES TWR; 0030-0130\* EE, rel pgm, DX pgm, to FE (Mark, Koziomkowski, Koenig, Glazzy, D'Angelo, Bogel, Bishop)
- 11940 BELGIUM BRT-4; 1700 EE, ID (Snyder 5/21) /cas
- 11945 SPAIN RTVE; 2250-2303 SS, tlk, mx, ID (Mark 6/23)-listed to Ameri-
- 11950 UNID; \*1400-1529\* No tlk, class mx, Burt Bacharach type mx, seemed to have 2 turntables handled professionally, Exc (Mulvey)
- 11950 LIBERIA ELWA; 0720-0730+ EE, rel pgm, ID into lang (Brookwell 7/3)
- 11950 USSR RM; 0233 EE, nx, cmntry, mx, Exc (T. Smith 6/20)
- 11955 USA VOA-Greenville; \*2300-2305 PP, s/on, lang annmnt (Mark 6/23)
- 11960 NEW ZEALAND RNZ; 2030-2100 EE, ID, nx, mx pgm (Rojewski 7/1)
- 11965 SPAIN RTVE; 0330-0410 SS, tlk, mx, ID (Sarrazin, Earhart, Dubrick)
- 11970 CUBA RHC; 0330 SS, ID, address, Good (Sarrazin 7/2)
- 11990 CZECHOSLOVAKIA RP; 1730 EE, nx, cmntry on banking, Poor (Beaudoin) 0143-0156 EE, ID, tlk on petrochemicals (Alder 6/30); 0326-0357 EE (Poppin, Mark, Dubrick)
- 12000NF LIBERIA VOA-Monrovia; \*1600-1800 EE, Af Svc, off-the-air relay (Hauser 6/26, Magne 6/27, Mark 6/16) - site per gh - ed. /Mark)
- 12000 E GERMANY RBI; 0328-0341 EE, to NAM, //11890, unlisted (Hauser, EGYPT HC; 2215 AA, Egyptian mx, Good (Yajko 6/25)
- 12012H COSTA RICA R Reloj; 0712, 2 x 6006 (Brookwell 6/10)
- 12020 USSR RM; 0327-0333 SS, annctd to Chile (Mark 6/23) /AUST)
- 12025 ISRAEL IBA; 1430 RR, Good level, //11700 which was jammed (Willis-12035 USSR RSP&P; 1559\* EE, ID, sked, Poor (Magne 5/16)
- 12045 ISRAEL IBA; 2230-2300\* EE, // 11625, Good (Schwartz 6/16); 0340-0350 RR, Poor after jammer caught it (Nebron 6/12)
- 12075 N KOREA R Pyongyang; 0705 EE, M w/ cmntry (Clare 6/12)-to SEAS; 0535 AA, M tlk, SSB QRM (Brookwell 6/30)
- 12080 CLANDESTINE (Venezuela) R Euzkadi; 1954-2000\* Basque, tlk to anthem s/off, //13335 (Krueger 6/15)
- 12140 CLANDESTINE R Espana Independiente; 2208 SS, tlk under jammer "Buzz" (Gavaras 7/7) - probably Bucharest tx - ed.
- 12212H USA VOA; 1437, almost AM Estonian feeder, Greenville presumed, //15235, 19723H (Hauser 6/26)
- 12590 ESPIANUMEROS; 0301-0308 SS, AM 5 digit numbers by M w/ oriental accent, ended w/ "794 794 25 25 0000", never hrd ending of "cero ..." before (Hauser 6/20) - "agent 794, CIA is by your door" (?) ed
- 15010A VIET NAM RH; \*1800-1846 EE, nx, history of Nat Assembly, mx (Brown Dunn); 1236-1242 VV, songs by M&W that were pretty, P (Moritz 6/19)
- 15060 CHINA RP; \*0000-0156\* EE, nx, rp on banquet by Premier Dung (Snyder, Schwartz, Nebron, Hancock); 02225-0230 EE, nx, cmntry, possible ID (Mark(T) 5/31); \*0400-0430 EE, ID, nx, cmntry (Glazzy 6/16)
- 15070 ENGLAND BBC; \*0500-0530 EE, WS to ME Af (Glazzy 7/7)
- 15084 IRAN NIRT; 0258-0310 lang, Viennese orchestral mx, past 0230\* in WRTH (Earhart 6/17); 0216-0230 Farsi, mx til 0230 w/ anthem and into HS (Cosier-AUST) - this explains past 0230 pgm& is listed in WRTH for HS; 1630 Farsi, cmntry, mx (Schwartz)
- 15100 ISRAEL IBA; 1225 EE, nx, ads, Fair (Miller 7/4, Zilmer 6/26); 2010 EE, nx, barely audible (Mark); \*0345 RR, IS, ID, nx until jammer smashed it at 0346 (Wooten-Sardina 6/7) /-AUST)
- 15100 USSR R Yerevan; \*0300-0330\* Armenian, to NAM, EE last 5 min (Padula 15105 FINLAND RP; 0739-0757\* EE, to WEur (Junqua-JAPAN 6/20)/ Brown)
- 15110 FINLAND RP; 1330-1400 EE, 1430-1500 EE, new time (Zilmer, Schneck, 15115 ECUADOR HCJBV 1352 EE, "Morning in the Mountains," (Junqua-JAPAN)
- 15120 POLAND PR; 0207-0235 EE, into Pol at 0235, back to EE, NAM Svc (Zilmer, Yajko, Mark, Alder)
- 15120NF SWEDEN RS; 1229-1232, IDs in EE/Swed, ex 15275, HCJB QRM on 15115 Poor (Earhart 6/24) - 15275 was for EAs and maybe OK there - ed.
- 15125 E GERMANY RBI; 1200 EE, cmntry, nx, ID (Beaudoin 5/30) - to SEAS
- 15125 SOUTH AFRICA RSA; 0810 PP, tlk, mx, to Angola, //11900,15220 (Zilmer 6/27)
- 15135 USA WYFR-Scituate; 2250 slow EE lesson (Brown 6/19)
- 15135 BRAZIL R Record; 1510-1725 PP, ID, Good signal (Field 6/10)
- 15165 DENMARK RD; 1730 EE ID into Dan (Snyder 5/21); 1557 EE ID into Dan (Noonan 5/16)

- 15165 SYRIA RD: 2255-2315 SS, nx, guitar mx, into AA at 2315, Fair (Mayer 6/19)
- 15170 PORTUGAL RFE: 1100-1115, ID in Polish, tlk, nx (Beaudoin 5/30)
- 15185 USA WINB-Red Lion: 2111 EE, rel pgm, Fair (Miller 7/4); 2200-2230 EE, rel pgm (K. Willis 6/26)
- 15185 SRI LANKA VOA-Colombo: 0230 EE, "Breakfast Show," (Underdown)
- 15185 TURKMEN SSR RM-Ashkhabad: 1000-1130+EE, RM except RSP&P 1030-1100, into langs at 1130 (Moritz 6/26, Beadoin 5/30)
- 15190 CONGO RTVC: 2140-2145 EE nx (Snyder 5/21); 1720-1750 EE ID for V o of Namibia into lang (Lausevich 6/14)
- 15200 VATICAN CITY RV: 2328 IS, possible test freq (Hauser 6/15)
- 15215 W GERMANY DW: 2020-2040 lang w/ ID at 2030-possible Esperanto taking over RAIs 2000-2020 Sunday show per SPEEDX& Dr. R Wood, unlist freq tho ID was definite (Trautschold 6/27)-pgm/freq not in 6/76 sked for DW per BBCMS - ed.
- 15220 HUNGARY RB: 0356 ID, pgm sked in EE, fading here (Wooten Sardinia 6/7); 2329 IS (Hauser 6/15)
- 15220 NETHERLANDS RN-Lopik: 2120\* FF (Bolitho 6/17)- site per RN sked
- 15230 AUSTRALIA ABC-VLH15: 0415 EE, soccer game (Beal 7/2)
- 15240 AUSTRALIA RA: 0259-0330 EE, ID, nx, Good (Turner 6/18)
- 15240 ITALY RAI: \*2230 SS, to CAM, Fair (Yajko 6/24)
- 15240 SWEDEN RS: 1417 EE, Poor under QRM (Beaudoin 6/15) - sked to SAS
- 15250 ROMANIA RB: \*0645 EE, to Pac, cmntry, annced //17835, 15380, 11940 Good, (Underdown 6/16)
- 15265NF ISRAEL IBA: 1800-1830 Ladino&Mograbit "A" pgm HS, //15512 $\frac{1}{2}$  only, 1830-2000\* HH "B" pgm HS, //15512 $\frac{1}{2}$ , 12077 $\frac{1}{2}$  (Magne 6/20) - he adds that "A" has never been relayed on SW before / lis-AUSTJ
- 15270 SEYCHELLES FEBA: 0347-0400 Farsi, tlk, ID, IS (Hancock 7/10, Will-1055-1100 IS "What A Friend We Have in Jesus," (Zilmer 6/23)
- 15273 URUGUAY SODRE: 0100-0115 SS, ID, soul&rock mx, Poor (Mayer 6/13)
- 15280 PHILIPPINES R Veritas: 0230 EE w/ Vatican relay, in past they s/off at 0200 (Willis-AUST)
- 15290 PHILIPPINES VOA: 0000 EE, nx (Brookwell 6/20)
- 15294T MALAYSIA VOM: \*1530 lang, soft tlk by M&W, chimes IS, Victor G says this may be VOM to ME in AA, Poor (Magne 5/16) / S chneck)
- 15305 SWEDEN RS: 1230-1300, 1415-1430\* EE, SCDXers, press review (Snyder
- 15310 MALAYSIA BBC-Tebrau: 1130 EE, "Command Performance," (Zilmer 6/19)
- 15310 BULGARIA RS: 2100 EE, nx, cmntry (Zilmer 6/28) - to Af - ed.
- 15325 UGANDA UBC: 1815-1830\* nx, ID, (Snyder 5/23) - EE? - ed.
- 15325 PAKISTAN RP: 0130 lang, EE ID to Indonesia (Zilmer 6/16) BBCMS 5/76 lists 0200-0245 Indo Svc, nothing at this time - ed.
- 15345T ARGENTINA R Nac-LRA33: 1415-1430 SS, concert mx (Davenport 6/6)
- 15350T ZATRE LVdz: 2010-2031 FF, tlk, guitars & singing (Mitchell 7/5)
- 15350 NETHERLAND ANTILLES TWR: 2340-2350 GG, rel pgm (Bolitho 6/17)
- 15380 NEW ZEALAND RNZ: 0231-0415 EE, National Pgm (Schwartz, Rojewski, Lineback, Hancock, Earhart, Dunn, Alder) /hart)
- 15400 VENEZUELA R Nac: 2200-2238 EE, annced 15395, nx, mx (Zilmer, Ear-
- 15415 HUNGARY RB: 2130-2137 EE, nx, "On the House," (Zilmer, Snyder)
- 15415 KUWAIT RK: 1540 AA, under IBA carrier, Poor (Magne)-past WRTH sked
- 15420 CYPRUS BBC: 0423-0442 EE, WS (Clare 6/19)
- 15425 SRI LANKA SLBC: 0205 EE, All Asian Svc, BBC nx, "Monday Morning Show," (Dunn 6/14)
- 15435 MALAYSIA BBC-Tebrau: 2300 EE, ID, nx, "Letterbox," (?)
- 15435 TANZANIA RT: 2001-2015\* M&W in alternate lang w/ some EE, mentions Uganda, Tanzania, Angola, EE at s/off buried by QRM (Moritz 6/25)
- 15512 ISRAEL IBA: 0045 HH, tlk, mx, ads, nx, unscheduled time (Zilmer)
- 15630 N KOREA RP: 0340-0345 KK, tlks, anthem at s/off (Brookwell)
- 15650 N KOREA: 0440-0445 SS, SS opera, class mx, s/off w/ anthem & sked anncing next pgm to Cuba at 0900-1000 GMT on 9778&7203 (Brookwell) \*2200 KK, IS, ID, // 11535 (Zilmer, Gavaras)
- 17625 EGYPT RC: 1245 AA, nx spot, mx (Wooten-Sardinia 6/6)
- 17665 PAKISTAN RP: 1547 As lang, sounds like soap opera, het (Magne)/har
- 17685 ISRAEL IBA: 1215-1230 EE, 1230-1253 FF (Zilmer, Wooten, Jones, Ear-
- 17705 AUSTRALIA ABC: 1335 EE, ID, sked, DX pgm (Schwartz 6/16)/schold(T))
- 17705 CUBA RHC: 1550-1600 SS, ID, IS, mx (Mark); FF 1720-1800 (Traut-
- 17710 USA VOA-Bethany: 1600-2100 EE, //17870(Monrovia)(Sarrazin 7/6)
- 17715 HUNGARY RB: 1020 Hung into EE at 1028 w/ nx, Poor freq to Aust since 16 m band is quiet after 1000 (Padula-AUST 6/23)
- 17720 FRANCE RFI: 1630-1715 FF, nx cmntry, ID (Trautschold, Brookwell)
- 17720 USA WINB-Red Lion: \*1730 EE rel pgm, Weak (Brookwell 6/22)

- 17725NF IRAN NIRT: 1030-1040 Farsi, J-76 THFBS listed a 350 kW tx for 17730, 1330-1730, maybe new txs (Padula-AUST 6/3)
- 17725 EGYPT RC: 1635-1700 Somali, Af&lcl mx, didn't seem to switch into Afar at 1700 per WRTH (Brookwell, 6/22, Beal 6/26)
- 17730 SWEDEN RS: 1430-1440 SW, IS, ID, nx, to SAS, Weak (Brown 7/6)
- 17750 PAKISTAN RP: 1630-1645\* slow EE, 1 hr later than WRTH sked (K Wil-1s, 6/26) - BBCMS new sked shows 1600-1645\* ED.
- 17765 RWANDA DW-Kigali: \*1200-1215 EE, Af Svc, "On the Scene," (Gaffin)
- 17780NF ECUADOR HCJB: 1742 EE, rel pgm (Brookwell); 1900 EE, "Visit w/ Mrs G," at 2000 (Wooten-Sardinia 6/6)
- 17795 AUSTRALIA RA: 0245 EE, annmnt of August Babli's death, 6/21/76, 85 yr old DXer (Overcamp 7/16); \*0100-0300\* EE (Underdown, Poppin)
- 17815 ISRAEL IBA: \*1530-1540 YY, nx, cmtry on Olympics, Jamming (Gaffin)
- 17825T SEYCHELLES FEBA: 1515-1530\* EE, history of Seychelles, to SEAS Poor (Beaudoin 6/15)
- 17830 ASCENSION ISLAND VOA: 1347-1359 SS, tlk to SAM, Good (Junqua-JAPAN)
- 17830 SWITZERLAND SBC: 1530-1538 EE, cmtry on CIA (Beaudoin 6/15)
- 17840 ASCENSION ISLAND BBC: \*1459-1530 EE, site ID, Radio Newsreel, // 17805, Good (Beaudoin 6/15, Mark 6/29)
- 17870 LIBERIA VOA-Monrovia: 1616 EE, Af nx (Mark 6/29) - site per VOA sk
- 17875 USSR RM: 1519-1530\* EE, Af nx, IS, into lang (Mark); 1447-1500 EE, RSP&P, cmtry on Angola, good (Beaudoin 6/15, Jones 6/13)
- 17890 TAIWAN VOFC: 1400-1430\* EE, CC mx, cmtry on Cultural Revolution on Mainland, ID (Glagzy 6/23) 1820 CC, mx, tlk (Brookwell 6/11)
- 17920 EGYPT RC: 1430-1445\* EE, mx, poetry, nx (Beaudoin)
- 21460 BELGIUM RTB: 1352-1352 FF, IS, ID (Wooten-Sardinia 6/25)
- 21465 EGYPT RC: 1355 AA, cmtry (Wooten-Sardinia 6/25)/RN sked-ed.
- 21480 NETHERLANDS / RN-Lopik: \*1400 EE, to SEAS (Wooten-Sardinia)-site per.
- 21485 USA VOA-Bethany: 1700-1840 EE, "Africana," (Gaffin, Brown)
- 21490 USSR RM: 1403 RR, nx by M&W (Wooten-Sardinia 6/25)
- 21500 USA VOA-Greenville: \*1800-1810 Ukrainian nx, G, (Gaffin 7/1)
- 21520 SWITZERLAND SBC: 1350 GG, nx, discussion on Lebanon (Schwartz);
- 21535 SOUTH AFRICA RSA: 1406 EE, Nx (Wooten-Sardinia); 1615+ EE, to EAF & ME, mx request (Brown 6/27) - freq sked Monday-Friday only
- 21540 E GERMANY RBI: 1408 EE, nx of Socialist world (Wooten-Sardinia)
- 21590 SAUDI ARABIA BSKSA: 1410 AA, Koran chants (Wooten-Sardinia) - BBCMS shows Riyadh on 21595 frn 1400-1700 to S&EAs - ed.
- 21600 W GERMANY DW: 1413 Amharic, IS, ID, freq into nx (Wooten-Sardinia)
- 21620 FRANCE RPI: 1418 FF, class mx pgm, Strong (Wooten-Sardinia)
- 21640 ENGLAND BBC: 1419 PP, nx for Af (Wooten-Sardinia)
- 21465 USSR Armavir: 1426, continuous EL mx (Wooten-Sardinia)
- 21665 PORTUGAL RFE: 1428 Polish, EL mx, ID at 1430, always stronger than jammer here (Wooten-Sardinia)
- 21670 CZECHOSLOVAKIA RP: 1432 EE to As & Pac, freq not in WRTH (Wooten-Sardinia) - Is given in 6/76 sked per BBCMS to 1830 in EE and langs
- 21670 USA VOA-UNR-Greenville: 1610-1645\* EE, General Assembly and Security Council debate, class mx, UN Radio (Krueger 6/24, Brown 6/19); 1730-1755 EE, VOA, drama on Boston Tea Party (Beal, Gaffin)
- 21675 FRANCE RPI: 1435 FF, mx (Wooten-Sardinia)
- 21700 PORTUGAL RP: 1445 PP ID and FF mx, Good (Wooten-Sardinia)
- 21710 ENGLAND BBC: 1440 EE, panel pgm (Wooten-Sardinia)
- 25000 USA WWV: 0627-0635, unusual late short skip reception (Underdown)
- 11940 SINGAPORE RS: 1333-1416 EE, nx, ID, into mx pgm w/ W, instrumental mx until 1400 then EE songs, Fair to Poor with QRM frn RM (Overcamp-Oregon 6/28) - I was on a short trip and enjoyed my first WCNA DXing w/ an XCR-30. It is so different out there and I wish I had more time to listen! Out of order for I didn't send rp to Greg!

Thanks for all your reports this month again. I had a great number and all could not get in. Check last month for many items reported in the 19 & 25 m bands that did not get in this month.

Send your reports to Greg so that he receives them by August 12th. Please put your name on each item and cut them apart. New skeds and items from DX shows should go to Listener's Notebook unless you also heard them. The sun will slowly fade over the next few months. Let's get those higher frequencies while we can!

73s. Tom

I guess we have a very patriotic bunch this month! Thank you, 76 reporters!

Bill ALDER, San Antonio, TX (SPR4/SX-133)...Donald ASTON, Rocky River, OH (SPR4)...Samuel BARTO, Watertown, CT...Hobart BEAL, Walla Walla, WA (SP313). Robert BEAUDINON, Bridgeport, CT (R-388)...Gerry BISHOP, Missoula, MT (DX160) Bill BOGEL, Perryville, MO (RF-1150)...Michael BOLITHO, Toronto, Ontario, Canada (A6S-38)...Larry BROOKWELL, San Diego, CA (R4B)...W. Noel BROWN, Ann Arbor, MI (SB-313)...Roy CALH, Monroe, LA (Midland)...George CLARE, San Mateo, CA (SPR4/A-2515)...Geoff COSSIER, Burwood, Vic, Australia (Trio 9R5DS/Sony CRF160)...Richard D'ANGELO, Brooklyn, NY...William DAVENPORT, Nashville, TN (DX-160)...Jim DAVIS, Travis AFB, CA (R-390)...William DRENNAN, Rosemere, Que, Canada (Kenwood 9R-59D)...Tony DUBRICK, Urbana, IL (GR78)...Marlin FIFIELD, Hillsdale, MI (SX100)...Adam GAFFEN, Brooklyn, NY (SSR-1)...Editor Tom CAVARAS, Wayzata, MN (HQ-180)...Emery GEARHART, Springfield, OH (SPR4/XCR-30)...John GESELL, Tucson, AR (SX-130)...Mike GLAZZY, San Jose, CA (SX-130)...Mark HALL, Stony Point, NY...John HANCOCK, Mobile, AL (SPR4)...Editor Glenn HAUSER, Knoxville, TN (HQ-160)...Chas. HUTCHINS, Rumford Pt., ME (NC-183)...Aaron HYWARREN, Winnipeg, Man, Canada (Marconi AR2A)...Jack JONES, Jackson, MS (DX-160)...Gib JUNQUA, Osaka, Japan (R4C)...Joseph KOENIG, Elmwood Park, NJ (DX-160)...Robert KOZIOMKOWSKI, Amsterdam, NY (SX-111/DX150) Terry KRUEGER, Casselberry, FL (Kenwood QR-666)...Arnold LAUSEVICH, Milwaukee WI (DX-150B/HQ-180C)...Bruce LAVERY, Atlanta, GA...Irving LEFFLER, Brooklyn, NY (DX-160)...Jerry LINERACK, St. Joseph, IL (SPR4)...Larry MAGNE, Philadelphia, PA...Mark MARTIN, Indianapolis, IN...Publisher Alan MAYER, Park Forest, IL (SPR4)...A.A. MILLER, Youngstown, OH (HRO-500)...Richard MITCHELL, Cupertino, CA (SSR-1)...John MORITZ Jr., Youngstown, OH (HQ-180)...James MULVEY, Seaford, NY (DX-160)...Steve MURPHY, Royal Oak, MI (S-146)...Larry NEBRON, Daly City, CA (SX-190/SW4A)...Scott NEWMAN, Lincolnwood, IL (RF-5000A)..... Timothy NOONAN, Milwaukee, WI (SW4A)...Bob PADULA, Surrey Hills, Vic, Australia (Marconi CR100)...George POPPIN, San Francisco, CA (CRF5090)...Steve RAPER, Cedartown, GA (SX-100)...Editor Greg RAVENHORST, Hollandale, MN (R4C) Don ROJEWSKI, Tacoma, WA (DX-160)...David SARRAZIN, Denver, CO (Unelco 1914) Bob SCHNECK, West Newton, MA (SPR4)...Richard SCHWARTZ, Dover, DE (SX-190/S108)...Todd SMITH, Wilton, CT (GR-64)...David SNYDER, Brooklyn, NY (DX-160) Leon TANNENWOLD, New York, NY (SPR4)...Glen THOMPSON, Deming, NM (HQ-145A)...John TRAUSCHOLD, Menomonee Falls, WI (SP-600/SB-310)...Kevin TURNER, Marietta, GA...Bob UNDERDOWN, Siloam Springs, AR (SW-717)...William WELCH, Tallahassee, FL (DX-160)...Dennis WEST, Mountain View, CA (SPR4)...Kent WILLIS, Louisville, KY (SP-600)...Mike WILLIS, Hampton, VA, Australia (Trio 9R59DE)...Dale WINGARD, Essexville, MI (DX-160)...Frank WOLTMAN, Cambridge, WI (DX-160)...Charles WOOTEN, USN, Sardinia, Italy (R4B/SSR-1)...Robert YAJKO, Leechburg, PA (SPR4)...Scott YATES, Old Hickory, TN (SB-310/S-76)... Robert ZILMER, Milwaukee, WI (SPR4)...and also: PADULA-BUNN DX-pedition, Tarra Valley Nat'l Park, East Gippsland, Vic, Australia (Trio 9R59DS)&PADULA-BUNN DX-pedition to Apollo Bay, Australia (Trio 9R59DS)...**THANK YOU-ALL 76!!**

**HELPING HAND:** Wanted. Someone with the technical expertise to modify an Allied AX-190 for SWBC reception. Contact Brandon Lovett, 322 West Main, Apt. #3, Portland, IN 47371.

**2nd ANNUAL OHIO WEEKEND DX SEMINAR:** The Miami Valley DX Club will hold it's yearly DX seminar August 21-22, 1976 at the Imperial House South, Canton, OH. For more information, send SASE to Bob Beck, 1102 Delverne Avenue, S.W., Canton, OH 44710.

**LONG WAVE CLUB OF AMERICA:** NASWA associate Bill Trubee, Kealakekua, HI has recently been named President of this DX club which specializes in the frequencies below 550 kHz says that anyone interested in this club should send a SASE to Ralph Sanserino, 8422 Crane Circle, Huntington Beach, CA 92646. Dues are priced right - 12 legal size SASE's get a years subscription to the club bulletin, THE LOWDOWN.

**TUCH'S TRIVIA:** Radio Telescopes are so sensitive that they can detect a radio signal so weak that it would have to keep impinging on one square centimeter of the surface of the telescope for about 66 thousand trillion years to transport to the square centimeter a single calorie of energy!

**QUICK COMMENTS:** Well, that's it for another month. A good turnout of LR reporters this month. Write in again! Remember, if you send in reports and find that some just are not used, it is only because we ran out of room to print all the reports, and had to eliminate some of the more often reported items. So don't let that thought get you down! We DO appreciate your reports, thoughts, and questions!!! Hope to see you all next month! Now, it's after the elusive Muskellunge, for me!!! 73's to everyone. *g*

# NASWA

NORTH AMERICAN SHORT WAVE ASSOCIATION\*POST OFFICE BOX 13\*LIBERTY, INDIANA 47353 U.S.A.  
Publishing **FRENDX** Monthly *Unity and Friendship*

NASWA'S dues are \$ 13. per year for members in North America, and for delivery via First Class Mail. Overseas dues are the same, but airmail is available for an additional cost. The following is the additional fee for overseas airmail: Central America, the Carribean, South America, and Europe \$ 7.00. Asia, Africa and the Pacific \$ 9.00.

NASWA'S DX HOTLINE is compiled twice a month, giving the DXer the very latest DX news while it is hot. The DX HOTLINE is edited by veteran DXer John Moritz. All reports for the DX HOTLINE go directly to John at 4145 New Rd. Youngstown, Ohio, 44515 USA. One issue of DX HOTLINE is incorporated in each issue of FRENDX, the other issue, the Mid-month DX HOTLINE is available in a separate mailing to NASWA members for \$3.00 per year in North America. It is air-mailed to overseas for \$5.00 per year. These fees are, of course, in addition to the annual membership dues.

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

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

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