



We bid a hearty welcome to the following
58 new members.

ANDREWS, Michael C., Fairfax, VA	JOHNSON, Hans, Kingwood, TX
ARTHUR, John T., Sunnyvale, CA**	LARSEN, Gary L., Kailua, HI
ATTWOOD, Jimi, Glace Bay, N.S.	LAZZA, Jon, Cincinnati, OH
BAILEY, William S., Ft. Wayne, IN	LEGER, John M., New York, NY**
BARNARD, Michael P., Muncie, IN	LORZ, Lawrence C., Hilton, NY
BARTLETT, Charles L., Millville, NJ	MARLIAC, Jean-Pierre, Westfield, NJ
BELLA, Larry A., South Bend, IN	MATSON, LeRoy, Minneapolis, MN
BERGERON, John, So. Portland, ME	McCRILLIS, Jim, Newark, OH
BOLTWOOD, Russell, Oakland, CA	O'DAY, John P., Columbia, SC
BRILL, Alan E., Staten Island, NY	QUINN, Dennis, Buffalo, NY**
BURKHART, Philip J., McKees Rock, PA	RASCOE, John, Farmington, NM
CHARNOW, Allen, Oakland, CA	RICE, Clifford E., Reidsville, NC
CLEMENS, Richard C., Buckhannon, WV	ROY, A.J., Berryville, VA
COCHRAN, Steven C., Indianapolis, IN	SALIBA, John M., Vernon Hills, IL
COLLMAN, Kevin C., Erie, PA	SPEAR, Mike, Federal Way, WA
DAVIS, Tony, Beaufort, SC	STATHIS, George J., Tucson, AZ
DORSEY, Bruce D., Lake Wales, FL	THIBODEAUX, Kieth J., Brusly, LA
DOUGLASS, James B., Scranton, PA	TOOPE, Terry, Springdale, Nfld
DRUMMER, Doug, Los Altos, CA	TORSAY, Eugene, Pompano Beach, FL
DUNLOP, James, Slinger, WI	TRASK, Ray, Vancouver, B.C.**
DURDEN, Adie, Albany, GA**	VanHORN, Larry & Gayle, Brighton, TN
ELWOOD, Mike, St. Peter, MN	VOGELMAN, John D., Tonawanda, NY
EVENSON, Arden, Spokane, WA	WARREN, Capt. Hoyt M. Jr., Gunter AFS
EYNON, Pauline, Canfield, OH	WENTZEL, T.J., Streetsboro, OH (AL)
GARCIA, Gervasio Luis, Rio Piedras, PR	WHITAKER, Elisabeth, Knoxville, TN
GODSEY, Frank H., Lynchburg, VA	WHITNEY, Jason, Prince George, B.C.
GRATON, Bowman, Duxbury, MA	WILLEVER, Lloyd J., Indianapolis, IN
GUZMAN, Tony, Lake Station, IN	Yamron, Lawrence H., Pittsburgh, PA**
HUGHES, Ray, Winnipeg, MAN	
JERMUSTK, William, Riverhead, NJ	

**Nice to have you back!

Here's some good news from the people who brought you the Idents & Interval Signals series. The HAP DXer's COURSE is now available! The first four tapes in this new series contain a lot of valuable information of interest to veteran and novice SWLs and DXers alike. Each tape is 60 minutes duration or longer. Here's what's covered:

TAPE 1	S.W. Propagation & the Ionosphere; The E Layer of the Ionosphere;
68:00	The Northern Lights; Ionospheric Donuts - A Phenomenon.
TAPE 2	Receiver Specifications Explained; Jamming (with examples);
60:00	Harmonics and Images - What They Are; Basic Reception Reporting.
TAPE 3	S.W. Receiving Antenna Course; What's the Best Antenna?;
72:00	Grounding - To Ground or Not to Ground.
TAPE 4	Frequency Management Course - The Role of the ITU & IFRB; S.W.
65:00	Interference & Man-made Noise - How to Recognize and Deal With It.

The price of each tape is: Cassette - \$4.50 Reel-to-Reel - \$5.00 in Canadian or U.S. Dollars.

Sterling prices for Britain only: Cassette - 2 pounds, 25 pence and Reel-to-Reel - 2 pounds, 50 pence.

We will print a more detailed full page description of these tapes with an order form in the July FRENEX (or perhaps this month if the space is available), but if you can't wait until then please write to:

Mr. Wayne Davis
Director, HAP-U.S.
27 Cleveland Ave.
Trenton,
NJ 08609, U.S.A.

Mr. Bill Dulmage
Chairman, C.E.A.P.
R.R. 3
Colborne, Ontario
Canada KOK 1S0

Mr. John Rose
Chairman, HAP-U.K.
5 Hall Street
Wombwell, Barnsley
Yorkshire, England

NASWA

A REPORT FROM
HEADQUARTERS

NORTH AMERICAN SHORT WAVE ASSOCIATION POST OFFICE BOX 13 LIBERTY, INDIANA 47353 U.S.A.
JUNE, 1978

LAST CALL FOR ANARC 1978 CONVENTION: This will be the last chance we will have to mention the 1978 Association of North American Radio Clubs convention to be held in Montreal, Canada July 14 to 16, 1978. As announced in earlier issues of FRENEX, all convention sessions will be held at Radio Canada International's studio complex (Maison de Radio Canada), 1400 Dorchester Boulevard, East, Montreal, Canada.

For reservation forms and complete details, in the US, send a SASE to ANARC 1978, 557 North Madison Avenue, Pasadena, CA 91101. In Canada, send a SASE to ANARC 1978 Convention Committee, 6 Coolbreeze Ave., Pt. Claire, Quebec, Canada H9S 5G4. All others, send one IRC to the ANARC address in Canada as listed above.

It is expected that Arne Skoog, host of Radio Sweden's "Sweden Calling DX-ers" program and Dick Speekman, host of Radio Nederlands "DX Juke Box" will be present to participate along with RCI's Ian McFarland and other well known SW personalities in scheduled programs at the convention. A tour of Maison de Radio Canada's MW, SW, and TV facilities will be featured as well.

We have been ask to mention that the price of the annual banquet will be \$10.00 per person rather than \$5.00 as mentioned in last month s FRENEX.

NEW FRENEX DISTRIBUTING EDITOR NEEDED: Greg Ravenhorst, who has been the FRENEX Log Report distributing editor for the past two years has ask to be relieved from that position as soon as possible, and after a suitable replacement can be found.

This being the case, we are now taking applications for Greg's replacement. While we consider all members of the FRENEX Staff to be of prime importance in putting out our monthly bulletin, the distributing editor's job is most important since the entire Log Report sections depend on that person's reliability in getting the material to each of the four section editors on time, otherwise almost 50% of FRENEX would be blank pages.

In a few words, the distributing editor duties are to receive all the Log Report material from contributors, sort it according to which editor will prepare each section, and dispatch the material to the proper editor on the 12th of each month without fail. Also, the distributing editor prepares the FRENEX Credit page which is sent to the publisher to appear in FRENEX.

Those who feel they might be interested should contact HQ as soon as possible and state their qualifications for this most important job. Only those who are able to assume the responsibility of this job are ask to consider applying. How about some of our lady NASWA members giving this some thought?

POSTAL RATE INCREASE: It was recently announced by the USPS that first class mail is being increased .02¢ per ounce effective May 29, 1978. While .02¢ does not sound like a lot of money, the fact NASWA's total postage expense was almost \$600.00 per month at the old rates, .02¢ per ounce increase will amount to a sizable sum in a years time. The Executive Council has determined that the treasury is in a healthy condition, so we are not giving thought at the present time to any increase in membership fees to cover the additional expense of postage and other rising costs.

A FINAL REMINDER: As announced in last month's HQ page, we will be publish a NASWA membership directory which will list the membership as of June 1, 1978. In our original announcement, we stated that anyone who **DOES NOT** wish to have his/her name included should drop us a card or note to that effect. In case some may not have noticed this last month, we mention it again.



M.R. Leonhardt
Executive Director - NASWA

shortwave CENTER

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

JUNE 1978

Thanks to all our contributors this month. We appreciate the efforts of all those who have taken time to contribute to Shortwave Center and the other FRENCH sections. Keep the material coming. The next deadline will be 12 June for timely material.

RESULTS OF THE FIRST "SURVEY OF LONGWAVE, MEDIUMWAVE, "MARINE",
AND FM BAND FEATURE DESIRABILITY IN MULTIBAND PORTABLE AND
COMMUNICATIONS RECEIVERS", MARCH 1978

DAVID JERARD DUKE
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10404 SIGMA DRIVE
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In the March Shortwave Center column, NASWA members were invited to respond to a survey of the desirability of selected receiver features for inclusion on a receiver that would try to meet to requirements of serious radio listeners to SW broadcast material. The same survey appeared simultaneously in CANDX, the monthly bulletin of the Canadian SWL International, an international SW club formed last year. To date, 56 of more than 1500 NASWA members have responded: less than 4%. However, by the time that 20 C-SWL-I and 50 NASWA responses had been tabulated (on 27 March 1978), it had become painfully obvious that the survey in its present form had some rather serious defects which were affecting the survey's validity and reliability: that is, it was not measuring exactly what I had intended for it to measure, and it was not always consistent in its measurements. I have ceased tabulating survey responses and am presently making extensive revisions in both the survey format and its content: I hope to have a revised and expanded survey ready for simultaneous publication in all ANARC-affiliated LW, MW, and SW clubs by early summer. Specific suggestions for improving the survey are solicited from all interested members.

I had hoped that as many as 50% or more of the membership of the two clubs would respond to the survey in order that the survey would be a statistically significant sampling of the population of serious radio listeners in North America. I feel that one of the reasons why I did not achieve this magnitude of response may be that the survey format or the response sheet was confusing, and responses from a number of respondents contained paradoxical or seemingly conflicting answers to some questions: the most glaring example of this problem were those respondents who indicated that they presently listened to longwave, considered its inclusion in a receiver to be a significant factor in their choice of a receiver for purchase, but would not (at least according to their survey responses) purchase a receiver if it did cover LW. This is not the fault of the respondent, but rather is indicative of poor survey design (and my own bizarre way of thinking, hi!). The relatively high number of non-responses to some survey questions was not expected, but was found to be related in some cases to the wording of a question or to the respondent's answer(s) to preceding questions: e.g., LW #6c, and "Marine" #4b, #5b & #5c. Also, no constraints were placed on survey respondents to answer all questions. A major goal now is to reduce ambiguity in the survey format and questions so that there is (hopefully) always a most appropriate response for each survey item. It is hoped that this will result in more meaningful responses, greater consistency of response, and in obtaining a larger sample population.

Nevertheless, some trends did emerge from the total of 70 responses tabulated:

- 1) Indirect frequency readout: mostly undesirable
- 2) Digital readout on all bands: highly desirable
- 3) Inclusion of LW and Marine bands: both, mostly desirable
- 4) Antenna selector/grounding switch: mostly desirable
- 5) 80-meter frequency converters for LW, MW, and Marine frequencies reception:
highly undesirable for all three ranges
- 6) Expansion of MW broadcast band frequencies: highly desirable
- 7) Selectivity of present receivers: too broad (NASWA: 80% responded affirmatively with either Yes/Strongly Agree (response #1) or Mildly Agree (response #2); C-SWL-I: 45% responded affirmatively but an equal number responded negatively (responses 4 & 5, Mildly Disagree & Strongly Disagree/No, respectively), with 5% Undecided and 5% declining to answer).

No detailed statistical tests were applied to the data because of the inadequate sample size: a simple number and percentage tabulation for each question and possible response was found to be sufficient to disclose both faulty questions and to identify possible trends. For those who wish, a photocopy of the tabulation of NASWA survey responses and the tabulation and comments for C-SWL-I survey responses may be obtained from me for a self-addressed legal size envelope and two (2) first class mint postage stamps (either US or Canadian, and unaffixed, please) or 2 IRCs for interested overseas members. A copy of this tabulation and respondents comments has been supplied to NASWA headquarters in Liberty, Indiana, and will probably be available to club members for inspection there.

Comments from NASWA Members are presented below. (Clarifying statements by myself will be printed using this type style to distinguish between the author of the comment and me)

E.V. 'Sandy' BLAIZE / WSTWV, Louisiana: "I would like a receiver with more degrees of selectivity: at least one position that would be narrower than the narrow position of most receivers presently available. I would also like better image rejection, especially on any single conversion bands. A digital display with readout to 0.1 kHz would be nice if it did not add too much to the price of the receiver. Dial backlash should be minimal. I would like the BFO to be crystal controlled and variable for CW reception."

William A. Morgens, Ohio: "If we can get calculators for under \$5.00 we ought to be seeing more digital receivers at hobbyist prices."

Gorman CANTRELL, New Mexico/Florida: "I travel all over the world and have had 20 portables by nearly all the manufacturers and have never been satisfied with any of them. They always lack something..."

Mike S. Hardester, Okinawa/F.P.O..Seattle: "Continuous coverage with direct (1 kHz or better) frequency resolution with a high degree of selectivity is important to me, as is shielding of the unit (as with Drake receivers). Sensitivity, of course, is a definite must."

Charles SHUKIS, Virginia: "Survey format is very confusing. Variable selectivity should be independent of 'mode' switch (AM/CW/SSB/FM etc.)." (I am trying to correct this defect in the forthcoming survey. I would appreciate very much if you could indicate to me the specific areas which you found confusing. Thanks.)

D.G. Lawrence, Labrador, Canada ("club affiliation: nil"): "Receiver should be easy to operate (i.e., direct frequency readout necessary). Selectivity, stability, and low intermodulation are most important characteristics. A good service manual should be readily available. Receiver must have a BFO. Advertising material for a receiver should give complete technical performance specifications (to allow intelligent shopping). External antenna jack is desirable."

Robert FRASER, Massachusetts: "I think your survey is long overdue. Maybe the whole business could have been reduced to one question: what would you like in a receiver?...I guess the ultimate receiver would be the basic circuit to which would be (added) plug-in full frequency continuous tuning modules for each band - LW, BCB (MW), SW, FM, etc....Then everyone could have what they wanted." (Last December, when I met with the export manager for the North American Group at Matsushita Electric, I suggested a plug-in module approach for some bands (0.1-1.1 MHz, 1.1-2.1 MHz, & 2.1-3.2 MHz), but my suggestion involved using converters and subtracting a difference frequency, something which the majority of survey respondents felt to be inconvenient. The manager I met with informed me they have no plans so far to manufacture such modules as I suggested, but that they were studying it and appreciated my suggestion. The Olympus Pearlorder microcassette recorder (model SD) has optional AM and FM tuner modules (AM: DRA1; FM: DRA2) which allow the recorder to tune off-air performances; they may even have a tuner module for the Japanese domestic SW radio network, NSB (Nihon Shortwave Broadcasting, or Nihon Tanpa Hoso), since this service operates on 6 fixed frequencies in the 75, 49, & 31 meterbands.)

Ms. Diane S. LEVESQUE, Illinois: "Let's put it this way: I am in the market for a good receiver that is as close to my ideal as possible (one that covers all frequencies from just above audio frequency to UHF, microwave, with a tuning accuracy of...1 kHz...or better. It doesn't really matter to me how the frequency readout is done as long as it is nearly infallibly accurate, but it looks like the most accurate means these days is digital...). I will not spend a ton of money on something that is lacking in performance somewhere, and all that fancy other stuff won't even entice me to buy it. If a receiver has what I'm looking for, I wouldn't mind paying out extra bucks for the frills if it was the only set on the market offering what I want...But if there was more than one receiver on the market offering what I want, but without the frills, I'd take the one without...In short, if I'm going to sink a whole lot of money into something, it had BETTER be GOOD!! If I spend half a mint

on something half as good, I've lost half a mint. If I buy something really good with a whole mint, then I've at least gotten my money's worth. Right?...I don't listen to LW much because I have inadequate means for doing so, not because of lack of interest...The interest IS there."

Charles A. WOOTTEN, Izmir, TURKEY/A.P.O. New York: "All receivers should now be able to be read to within 1 kHz as the state of the art progresses. They should also have a specific tape recorder jack on the back and all should have external antenna/ground connections."

Regino RINCON, Texas: "I would like the best noise-filter combination possible on SW, LW, and MW; a preselector or antenna trimmer with RF amplification; a Q-multiplier with peak and null (notch filter) to improve selectivity, or mechanical, crystal or ceramic ladder filters; an attenuator; an whatever else would improve reception." (Thank you for the data sheet on the Panasonic receivers.)

H. WALDRON, Pennsylvania: "One of the poorest features of currently made receivers is the overloading of the front end by very strong signals."

Dr. James SNOW, Georgia: "Please...have accurate LED readout on MW and LW for North American market receivers."

K.M. DUKE, Ohio (No relationship between us, I think, though my father was raised in Iowa— drop me a line, ok?): "Cannot the same multiple conversion circuitry be applied to all bands with direct frequency readout?" (Some receivers appear to do this (FRG-7, SSR-1, etc) though I am unsure if it is possible to have the final IF located within the receiver's frequency coverage. If someone knows, please write and tell me)

Frank KISSEL, Illinois: "Can a squelch mechanism be developed for MW & SW like there is on FM? Keep price at \$300 and they will sell well!" (I don't know the answer to your question: I'm not a circuit designer or experimenter, yet. Can anyone help? I thought squelch circuits were used to mute background noise while waiting for a transmission to be heard on a given frequency, but I could be in error)

Thomas STANZIALE, Connecticut: "On the accuracy of the clock, it would be all right if it could equal that of a \$25 Timex." (Thanks for spreading the survey found among your SWL friends; I really appreciate the exposure.)

Hedley D. CRESS, Virginia: "Longwave, Marine and FM are specialty features not compatible with the type of receiver in question. The result of such features is unnecessary complication and lower overall quality and performance."

Kenny R. JOHNS, Tennessee: "I suggest a power saver switch to turn lights off; dials and drums designed so they are not too hard to read with dial lights off; easy antenna and ground hook-ups; and a crystal calibrator with 25 and 100 kHz markers."

Wesley THOMPSON, Pennsylvania: "I would like a slow scanner to stop on weak, medium, or strong signals; the units serial number etched in metal on the front of the set; large tuning and control knobs; a hinged removable cabinet top for easy access to the unit's interior; a tape output jack on the front of the set; earphones made especially for the set; an indicator light which specifies the mode (AM, LSB or USB), if this is possible; and ground and antenna posts with a hole for wire connections."

Kenneth DELONG, Pennsylvania: "Instead of separate or indirect displays, why not have a logic circuit that subtracts the IF and can be inserted into the counting circuits with a switch? The clock could use the same display that the frequency counter uses with a switch to select between the two."

M.C. HUNT, Ohio: "My Sony ICF-5900W is too broad in terms of selectivity. More expensive receivers would appear to be adequate."

F. FUMELLI, New York: "A receiver with AM, FM, SW, & LW, with (digital?) frequency readout for SW and good tone controls and selectivity is all the SWL fan needs. I don't believe LED frequency readout is necessary on MW and LW, though it could conceivably be used on MW in crowded areas. A lot of SW Listeners like decent sound, so include those tone controls."

Jerry LINEBACK, Illinois: "For selectivity, filters should have narrow skirts. Most 5 kHz systems are too broad at high signal strength levels. Good radios should have three levels of selectivity: a good 5 kHz filter, a 2.5 kHz 'narrow' filter that will hold a signal to ± 5 kHz at 60 dB, and a very narrow 1 kHz filter for specialized operations such as CW reception and zero-beating of carrier frequencies." (Thanks so much for printing this survey in your column, even though it has been shown to be a less than perfect survey... Jerry's response was the first one to arrive...)

Bob RUGGLEY: "I don't think digital readout, clocks, FM bands are necessary on a SW receiver. They should be omitted and the money saved put into superior design features such as (improved) selectivity and sensitivity. An antenna trimmer would be nice, as would crystal calibration. Of course, a Wadley-Loop circuit should be used and a frequency readout on the dial to 1 kHz (is desirable)."

Hugh MILLER, Washington: "Specifications on Longwave bands of portables are never good enough to be of any use to those who want to DX longwave — a small band of diehards... There is some talk of moving new broadcast stations into a 1600-1800 band. This will probably occur within 10 years. Marine range will thus be useful, or more so. (Triple conversion) is more expensive and more circuits to malfunction... A quieter, more sensitive receiver can be built with less conversion stages: mixers are higher noise sources than straight amplifiers. In my own...view, single conversion with a high IF and digital readout... would be best and simplest for direct readout on all bands." (Hugh's amateur call sign is WB7QV; accidentally forget to type it after your name).

Dr. Richard E. WOOD, New Hampshire: "A notch filter or Q-multiplier must be included."

Stephen H. PONDER, Texas: "Why not design a survey for less than \$250 receivers? These are the only types that I can afford... I would love to have a LW-MW portable (for under \$50)." (Revised survey will not have price distinctions, except for items which would try to ascertain radio listeners feelings about how much they feel some items might add to a receiver's price and would they be willing to pay for that feature?)

Richard Noel ALLEN, Oklahoma: "I own a Yaesu FRG-7 and a Palomar VLF Converter in order to tune the Longwave band. I often hear Allouis, France, on 164 kHz, sometimes even with a good signal level. Occasionally, Europe #1, on 180 kHz, is heard here. BEC, 200 kHz; Radio Monte Carlo, 218 kHz; and Morocco, 209 kHz, have been logged. I often use the aero stations for weather information."

Dean WHITE, Illinois: "LED 24 hour clock would be very useful. If possible, I would prefer AC regulated instead of quartz because of accumulative time error with quartz. Clock should be to nearest second if one is to be incorporated in any unit. LCD might even be better."

Frank J. HERMANN, Ontario, CANADA: "I would prefer an AC/BATTERY switch rather than an automatic switching arrangement; momentary type light. If the clock were to cost more than a digital wrist watch it wouldn't be worth it..." (Regarding these and numerous other features Frank suggested, he said, "I should live to afford this!", hi!)

David L. WALCUTT, Texas: "Having to add a correction factor to digital readout would offset most advantages where portable operation was desired or where the user also owned a communications receiver with direct analog readout such as a Drake SPR-4, R-4C." (Agreed!)

Kelly KLUMB, California: "Sorry, your response format was quite confusing... What is 'indirect'????... I'm sure the clock wouldn't work for long... I miss not having Marine capability but my (Panasonic) RF-2200 was the cheapest SW radio I could find (with any quality). I can't understand why 1600-3500 kHz was left out!?" (Actually, the missing frequencies in the RF-2200 are 1600-3900, nominally, but it is possible to lower the upper limit to about 3850 with care since the dial loses its linearity of frequency readout below about 4.0 MHz. Hope to do something about the confusing format and response sheet in the next survey.)

Gary PIEPER, Michigan: "I would like the ability to listen to all the bands mentioned. Accurate Digital frequency readout would be good on all but local AM & FM bands."

Edward B. SEEGER, Jr. / WB5PTW: "I will gladly pay \$400-500 for a digitally synthesized LW-MW-SW-FM dual or triple conversion quality receiver with the features explored in your survey..."

Clarence WILSON, Texas: "I have a FRG-7 and wish they (Yaesu) would have included a switch in order to choose between broad and narrow selectivity." (Maybe the rumored digital version of the FRG will have this improvement; I have heard that the model may be designated the Yaesu FRG-700, but can't remember who told me!)

Jack R. JONES, Mississippi: "Digital readout is nice but I would be just as happy with a translucent dial with a back-lighted cursor (to eliminate parallax) that would read directly to 2 or 3 kHz: I could interpolate anything less than that. Digital readout adds to the expense of the receiver, but my main (and perhaps only) objection is that it is one more thing that could get out of whack! Maybe, too, I'm a bit old-fashioned and prefer the dial. I...realize the trend is towards (digital) readout and I will certainly go along with the feature if the receiver has the other features I require. Longwave and FM do not interest me on this type of receiver. For FM I'll use the hi-fi stereo approach. In other words, I want the (MW) Broadcast band and all the way to 30 MHz on my receiver. Selectivity and sensitivity is the key. Variable selectivity to 1 or 2 kHz, so I can 'get the guy in between'. BFO ought to be tunable, not just set 1 kHz up or down..."

John KOLB, California: "If I had a receiver capable of receiving longwave broadcast stations I might use it. With the proper design approach, longwave coverage would not necessarily be that costly. A dial accuracy of 2 kHz or better would be desired by longwave beacon DXers, which can best be achieved with digital readout; 5 kHz readout should be sufficient for LW broadcast stations...With modern LSI (Large Scale Integration) presettable up/down frequency counter IC's, digital displays are easy to implement with built-in compensation for any IF...LW capability would be a minor characteristic compared to factors such as selectivity and freedom from cross-modulation; LW and its cost would only be a factor in comparing two substantially identical receivers...I see no reason to have separate counter/displays for SW and LW/MW...I am strongly opposed to inclusion of FM (88-108 MHz) reception in a communications receiver and would take such a product as not being of high quality, although the FCC has proposed forcing all AM receivers to also include the FM band. If included, the FM section should be separate from antenna jack to detector output; some sharing of digital display would be acceptable...I feel the shape factors of the passband curves for present receivers are not acceptable: a 5 kHz bandwidth at -3 dB is acceptable but the 15 kHz bandwidth at -60 dB typical (of today's receivers) is not...The user should only be concerned with the final performance (of a receiver), not how the designer achieved it: triple conversion with (first)IF above 30 MHz implies a Wadley Loop receiver to me; why not dual conversion with a first IF of 45 MHz (utilizing crystal filters)?...I would use a built in whip antenna only for portable use; otherwise I want coax (connectors), UHF or BNC types, and I do not want unshielded terminals in parallel with the coax fitting to degrade performance: ask a serious (LW broadcast band) listener using a high performance loop antenna what a little pick-up can do to a loop's null."

A few other survey respondents offered comments which commended the survey as a good idea, suggested that it should be distributed to all radio manufacturers, or wished to be informed of the survey results.

I wish to thank all of the members who responded to this survey: I enjoyed your comments, and the occasional accompanying letters. This survey and its results will be sent to a few manufacturers and distributors now, and to all manufacturers and distributors together with the results of the revised survey after it is published and tabulated this summer. I hope that even more of you will respond to the upcoming survey.

73's de Dave.

SURVEY OF LONGWAVE, MEDIUMWAVE, "MARINE", AND FM BAND FEATURE
DESIRABILITY IN MULTIBAND PORTABLE AND COMMUNICATIONS RECEIVERS

RESULTS: NORTH AMERICAN SHORT WAVE ASSOCIATION
March 1978

N=50

SECTION & QUESTION #s	RESPONSES										No Response	
	1		2		3		4		5		#	%
	#	%	#	%	#	%	#	%	#	%		
Longwave												
1a	8	16	13	26	1	2	10	20	16	32	2	4
1b	14	28	7	14	0	0	8	16	18	36	3	6
1c	10	20	8	16	3	6	8	16	18	36	3	6
2	27	54	7	14	4	8	2	4	9	18	1	2
3a	15	30	8	16	10	20	5	10	10	20	2	4
3b	21	42	5	10	10	20	3	6	8	16	3	6
4a	24	48	8	16	7	14	2	4	7	14	2	4
4b	20	40	4	8	3	6	7	14	15	30	1	2
5a	1	2	11	22	5	10	5	10	24	48	4	8
5b	20	40	4	8	12	24	4	8	5	10	5	10
5c	11	22	7	14	13	26	1	2	13	26	5	10
6a	23	46	6	12	5	10	4	8	10	20	2	4
6b	24	48	4	8	7	14	0	0	3	6	12	24
6c	3	6	1	2	10	20	2	4	16	32	18	36

Mediumwave

1a	34	68	5	10	3	6	4	8	4	8	0	0
1b	17	34	5	10	9	18	7	14	9	18	3	6
1c	3	6	8	16	10	20	3	6	22	44	4	8
1d	9	18	3	6	11	22	6	12	19	38	2	4
2	41	82	4	8	1	2	0	0	2	4	2	4

"Marine"

1a	15	30	14	28	2	4	10	20	9	18	0	0
1b	10	20	12	24	3	6	9	18	16	32	0	0
1c	17	34	15	30	3	6	4	8	10	20	1	2
1d	20	40	6	12	4	8	0	0	0	0	20	40
2	29	58	11	22	2	4	1	2	7	14	0	0
3a	29	58	8	16	3	6	2	4	6	12	2	4
3b	25	50	5	10	5	10	3	6	10	20	2	4
4a	1	2	7	14	10	20	5	10	21	42	6	12
4b	17	34	3	6	13	26	3	6	9	18	5	10
4c	9	18	5	10	13	26	3	6	14	28	6	12
5a	19	38	10	20	5	10	3	6	9	18	4	8
5b	23	46	8	16	5	10	2	4	5	10	7	14
5c	6	12	2	4	7	14	4	8	13	26	18	36

FM

1	26	52	5	10	2	4	0	0	15	30	2	4
2	26	52	3	6	5	10	1	2	7	14	8	16

General

1a	30	60	10	20	4	8	1	2	4	8	1	2
1b	23	46	6	12	14	28	2	4	1	2	4	8
2a	25	50	11	22	7	14	3	6	2	4	2	4
2b	5	10	2	4	10	20	7	14	18	36	8	16
3a	24	48	12	24	3	6	4	8	6	12	1	2
3b	25	50	8	16	6	12	3	6	7	14	1	2

Tape Your DX

DX RECORDING

by Don Dawson, Sherwood Park, Alberta

The recording of shortwave broadcasts is a topic of interest to many SWLs these days. Unfortunately, the limited information that has been published in this area has tended to give only superficial coverage of the subject. While I have only been involved in DXing for little over a year, I have been involved with the use of home recording equipment for over 15 years. During that time, I've gained considerable experience in recording techniques and the various applications of tape recording equipment. It is my hope that this article will be of assistance to the SWL who is planning to add recording capability to his listening shack.

WHY DX-RECORDING? For the serious DXer, a modest but functional tape recorder can prove an invaluable asset to his listening activities. I have personally found a recorder invaluable in allowing me to replay broadcasts and gather exact information for reception reports. The facility to replay a broadcast a number of times can mean the difference in being able to identify stations received with considerable interference or broadcasts in a variety of foreign languages. This replay facility also allows the listener to note such pertinent facts as the announcer names, program names, and specific wording of station identification.

DXers enjoy sharing their reception experiences with fellow DXers and non-listeners alike. A recorder will allow the DXer to build a basic library of broadcasts which he can replay for his personal enjoyment and the enjoyment of others.

THE MACHINE: A number of articles that have been written advocate the reel-to-reel machine as the most useful format for the SWL. From personal experience, I have found the cassette recorder to be much more versatile. Tape available in the cassette format is considerably less expensive than reel-to-reel tape of an equivalent quality. The compact format of cassettes make them ideal for storage purposes and for mailing recorded material. The cassette format also allows one to remove a recording from the machine without having to rewind the tape. The knock-out feature of cassettes also ensures that valuable recordings will not be erased accidentally.

In selecting a cassette recorder, the first decision the SWL will be faced with is

whether to buy a portable or a stereo cassette deck. Although the investment is definitely higher (\$125-175 as opposed to \$60-100), I recommend the purchase of a cassette deck. A number of features which are useful to the SWL can only be found in the deck models. The stereo facility will allow the SWL to use the machine both for DX-recording and for recording music.

The following is a list of features which the listener will find useful in his recording activities:

- Automatic Recording Level** - This feature is extremely useful in that it will tend to compensate for fluctuating recording levels due to fading. This feature should be switchable to allow for manual level control which is preferable when recording music.
- Digital Tape Counter** - This provision will allow the listener to note critical points in broadcasts when IDs are given, frequencies listed, and interval signals played.
- Pause Control** - This function is useful for editing recordings the listener may wish to keep and for momentarily stopping the tape when making written transcriptions.
- Automatic Full System Shutoff** - With this provision the listener can leave the recorder unattended and it will automatically stop at the end of the tape.
- Microphone/Auxiliary Input Jacks** - Both these jacks have a significant bearing on the type of receiver the recorder can be connected to. This will be discussed further in the section on equipment operation.
- Headphone Jack** - This facility is extremely useful in transcribing broadcasts where reception quality is poor. What may sound like hash when played over a speaker may prove to be much more readable over headphones.
- Dolby Noise Reduction** - While this capability is not essential, it will certainly enhance the quality of musical recordings and will assist in cutting high frequency noise on some broadcast recordings.
- Frequency Response** - This area is not crucial for DX recording and even the bottom of the line recorders have an adequate frequency response for broadcast recording. If the machine will also be used for music recording, I recommend a frequency response of at least 30-15,000 Hz with Chrome or Ferri-Chrome cassettes.

THE TAPE: With the growth in popularity of cassette recorders over the past decade, there are literally hundreds of different brands of cassette tapes available. Unfortunately, many of the bargain-priced cassettes are highly unacceptable in terms of both mechanical and recording quality. From a mechanical point of view, a good cassette should operate smoothly and quietly in all tape movement modes. The shell of a good cassette is usually held together by four small screws rather than glue. The tape itself should be relatively low in background hiss and free from dropouts (ferrous oxide imperfections which cause blank spots in recordings). Cassettes marketed by the leading tape and recorder manufacturers are consistently good quality buys. Tapes produced by the manufacturer of a recorder are designed to compliment the machine's capabilities and are a worthwhile investment, particularly for good musical reproduction.

There are a number of different classes of cassette tapes on the market. The top-of-the-line Ferrichrome and Chrome tapes are best for recording music if the cassette machine has the appropriate Bias and Equalization settings for them. Tapes in the High Fidelity and Low Noise categories are in the middle price range and are of sufficient quality for broadcast recording. Standard or budget-priced tapes tend to be high in background noise and are unsuitable for most recording applications.

Cassettes are available in a range of time-lengths from 15 minutes per side (C-30) to 60 minutes per side (C-120). From personal experience, I have found the C-90 (45 minutes per side) most useful for shortwave recording. The 45 minute time span allows one to start the machine a few minutes before a broadcast is due to start and still allows a sufficient time margin to record the closing identification at the end of the program. While the C-120 cassettes offer even greater recording time, they are comprised of extremely thin recording tape and have been known to bind or jam easily. The C-30 tapes are ideal for keeping recordings of interval signals or excerpts from favorite broadcasts.

EQUIPMENT OPERATION: There are a number of different ways to connect a cassette deck to a receiver. If your receiver is equipped with a tape recording output jack, you simply use the appropriate patch cord to connect it to the Auxiliary (sometimes called Line) input jack of your cassette recorder. In some cases the cord may have to be connected to the microphone jack to provide sufficient recording level (read both the recorder and receiver user manuals to determine the recommended procedure). This method is the most ideal means of interconnection in that the recording signal is not altered by receiver gain and attenuation controls.

Unfortunately, the provision of a recording output jack is a relatively recent

innovation on the part of receiver manufacturers. If your receiver doesn't have a record output jack, there are three different ways in which it can be connected to a recorder. The simplest, and least satisfactory method, is to place a microphone in front of the speaker. This method is almost totally unsatisfactory as the recorded audio quality will be very poor due to the microphone picking up all extraneous room noise as well as the speaker audio. The second method is to use a patch cord with alligator clips on one end and a plug that matches the recorder on the other end. The alligator clips are attached to the speaker lugs of the receiver and the plug is inserted in the Aux/Line input of the recorder. While this method will eliminate the recording of extraneous room noise, the signal is still influenced by receiver Gain/Attenuation controls. The speaker signal from the receiver is very strong compared to conventional recording outputs and resistors may have to be used to cut the signal power down for tape recorder input. The most suitable and most expensive method is to take your receiver to a competent technician and have a recording output added to the circuitry.

I strongly recommend listeners should keep their recorder running whenever they are tuning around the bands. You never know when you may run across that hard to catch station and you may miss getting the interval signal or sign-on remarks if you have to fumble around loading a tape and starting the recorder.

If you are planning on building a library of DX recordings, it is useful to have access to a second cassette recorder. In this way you can edit your tapes and make up short representative samples of programs you have heard.

Some of the latest additions to the cassette recorder market feature a provision to connect the recorder to a timer. This type of provision may be useful for those who tend to prefer a good nights sleep to nocturnal DX-chasing.

In writing this article, I've attempted to provide DXers with the basic information required to add a recording mode to their listening operation. If these guidelines are followed, the addition of recording equipment will add a whole new dimension to the listeners enjoyment.

SWITCH

AN ANTENNA/RECEIVER SWITCH ANYONE CAN BUILD

By Bill Whitacre, Lansing, MI

"Get this mess cleaned up back here" came the voice roaring up the stairs as my mother once again stumbled and ducked her way through my shack to the wash room. How many times had I heard that 40 dB over S9 voice booming that or some other unedited phrase at me? Could I help it if the shack always looked like it was in "temporary" repair? After all, I'd already rewired the AC in the shack so we no longer had a condemned fire hazard on our hands, what with all the ungrounded AC cords running all over.

Since I was in a conciliatory mood and just itching to build something, I decided it was time to use that rotary switch and coax connectors that dad and I bought at the last swap 'n shop. Armed with my trusty soldering gun, some coax connectors and jacks, my switch, some hook-up wire and a Bud box, I went to work and by supper time had a nifty little switch that not only allowed me to switch between any of the millenium of receivers in the shack, but also allowed me to use either of two antennas on any of them! Pretty classy - at least it was better than all those missing clip leads and shorting antenna wires. Since others visiting the shack after I made this modification seemed fairly impressed by its flexibility and accessability I thought I would share it with you - as simple as it is.

What you will need. First off you will need a good rotary switch. It is always a good idea to look to the future, so if you now have two receivers, you'd better get a 3 or 4 or more position rotary switch as you will no doubt want to use them sometime. This is also the first of many places in this project for diversion from my own version. I used a simple single pole rotary switch, but one could use a double or triple pole switch to not only switch the antenna from receiver to receiver, but also a single speaker or a preselector or whatever. This may call for a slight modification in the kind of switch used to avoid ground looping, but it is nothing very serious.

Secondly you will need a DPST toggle switch to get from one antenna to the other. Here again is another place for diversion; if you have more than two antennas you will have to go to a rotary switch and this will enlarge the size of the needed box.

Thirdly, you are going to need a box to stick all this stuff in. For the version I built a metal box is a prerequisite as I use a common ground. Since I come from a long line of tinkers I used an appropriately sized Bud box that we had around the basement. Bud boxes are available from any decent radio supply store or you could order the box from a catalogue. Make sure the box is big enough! Remember you've got at least one rotary switch, a whole bunch of connectors, wiring, and a toggle switch going in there and you will probably want to leave room for improvements or additions later.

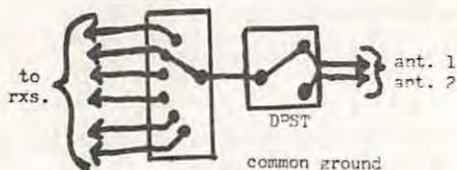
Fourthly, you will need some connectors and jacks to get in and out of the box. I chose PL-239 connectors as I am partial to them and because I already had some on hand. Any decent, low loss, quick connecting connectors will do. They ought to be something that will handle RG-58/U coax though, as that is what I would suggest you use to go from the box to your receivers.

Now that you have got all the stuff together along with your soldering gun and some hook-up wire, you are ready to start. Before you do though, here are some hints and kinks on things to think about as or before you build the box. While I used the common ground system in my version, it might be smarter to insulate each connector from the metal box and use a two pole rotary switch using one pole for the center conductor and the other pole for the outer shield. This will insure truly "single antenna" operation. If you plan to use a loop antenna, as I did, on the switch, remember to keep your coax runs as short as possible. This is because the longer they are the more directionality you lose from the loop. Since you are using the rotary switch for a receiving antenna switch its size is irrelevant. The voltages and currents flowing through the box are in microvolts and picoamps and are almost negligible.

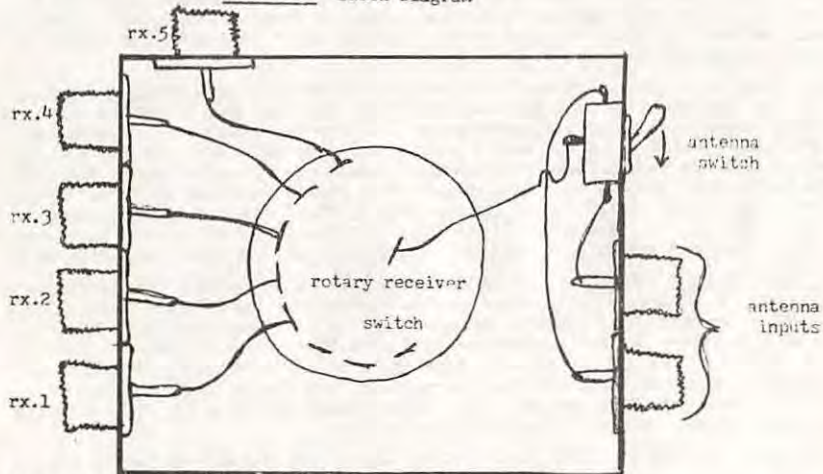
CAUTION: Don't be misled, this antenna/receiver switch allows you to use one antenna on one receiver at any one time!! This means, if you want to listen to more than one receiver at a time, or want to record something on one receiver while listening to the other, you had better get another antenna or some isolation amplifiers. At present, I am working on such a scheme, that is through the use of isolation amplifiers, providing the ability to use the same antenna on several different receivers at the same time with no loss of signal.

VERSION 1 "the fools fool"

VERSION 2 "the pseudo sophisticate"



VERSION 1 Block Diagram



Your Editor recently received the 1978 catalog from Gilfer, Box 239, Park Ridge, NJ 07656 (201-391-7887). They are offering the FRG-7 modified with a 4 kHz filter for \$340 plus shipping. For \$179 you can add digital readout to the FRG-7, they also offer the Panasonic RF-2200 for \$149.50 and the RF-2800 for \$229, all plus shipping. They also have other shortwave accessories and publications. Write for catalog if you have not received it. Gilfer offers quick and friendly service by mail or phone and your MC or Visa cards welcome. I had my RF-2800 from them in 10 days of a phone call.

BEGINNERS PATCH

THE BEGINNER'S GUIDE TO PERU AND BOLIVIA:
INITIAL LOGGINGS

by Daniel Gallagher, Lubbock, TX

An earlier article treated some of the more obvious stations throughout Latin and South America. Now the focus sharpens, and the loggings become just a bit more difficult, all depending upon where you happen to live. Peru and Bolivia are usually not the first countries to be had by the beginner, with an easy reason: lower power, not to mention a little longer distance. With a so-so antenna, these stations will be audible some nights and non-existent on others. On the others, you can catch an AFRTS baseball game. For the good nights, though, the following may be of some value.

Peru has plenty of stations all right, but they just don't like our sleeping schedule, most being found around 1000-1100 GMT. Also they don't like clear frequencies. If Venezuela decides to do up the town power-wise, you can be sure there is a Peruvian lurking in the ozone right behind them. I have found that one of the more recent stations, Radio Eco, tends to be in the clear more often, and tends to broadcast during prime SWling time, hence this is the one for the beginner who wants to nail Peru in his log book.

Radio Eco, transmitting from Paríña, is on 5010 kHz, just a hair above WWV . . . on cheaper rigs, it's the first bit of signal you get to (sorry, Sarawak, 5005), and it will usually be fairly readable when it is there. What else could be there? Not much, really . . . just Radio Singapore, Radio Garoua (Cameroon), Radio Crystal (Dom. Rep.), and Radio Surcolombia (Colombia) - - that's enough. The only one, though, that would really get in the way would be Colombia, I think Garoua will stay out of your way, and if not, it will not sound like Peru. The time to try Radio Eco is about 0200 GMT, but go ahead and check back until 0330, and look for a signal with minimal fade and echoing IDs. You'll get it, don't get impatient.

If you want Peru the harder way, you'll just have to take R. Quillabamba on 5025 kHz or R. Victoria on 6020 or R. Panamericana on 5980, the last of which may be second best. Forget Twantisuyo for now-save that one for Excedrin Headache #250. If I seem to disregard some of your more favored targets, remember that I'm trying to make this painless all the way up to Paraguay.

Now for Bolivia, there is really just one that should concern you for the moment, and that is the one that is named after the constellation that can only be seen in the Southern Hemisphere-the Southern Cross. La Cruz Del Sur, on 4875 kHz, is one of those stations that you'll want to hear just a little longer than normal once you have logged it. The reason is the music; flutes and strings, sometimes beautifully haunting, float on this frequency amidst the other religious music and programming. But this has its price! Plan to stay up for this one, as it can be best pulled in at 1030 GMT, or any time thereabouts, plus or minus a half hour. The IDs are clear and the signal is sometimes quite potent. Don't get Radio Centenela del Sur by mistake, it is on 4892, somewhat nearby on cheap rigs and it is from Ecuador. If your radio makes it hard to find the right frequency, then find one of the monsters, like R. Reloj on 4832 and move up . . . it helps to have the NASWA-FRENDX Log Report Section A handy (a tip of the hat to Dan Robinson), because often it is the listed "markers" that help track down that elusive station.


That, in conclusion, should help you log countries #89 and 90 (just guesses based on experience necessary to be at this level of DXing) and convince you that you don't necessarily have to remain ignorant of the wilder part of South America . . . not that it isn't easier occasionally to remain ignorant, at least for me. But this should be of some help, if it doesn't cure your insomnia. Buenas DXas.

THIS AND THAT

Recent activity on the sun has been the most spectacular in many years. At 1306 UT on 28 April there was a major flare and X-ray burst, a considerable amount of radio energy was recorded also. A shortwave radio fade-out was noted. Another event took place at 1815 UT on 29 April, with more fading noted on shortwave circuits. Proton enhancements were noted on 29 April from the first event. Polar Cap absorption of radio waves reached a peak on 30 April. A sudden commencement and minor geomagnetic storm was noted at 0952 UT on 30 April. Additional major activity was noted on 1 May, 2 May and 7 May. The geomagnetic field was at major storm levels 1, 2, and 4 May. Major activity is expected again when this area returns to the face of the sun in 27 days (from when it first appeared) that is about 25 May.

Thanks to all who contributed this month. We appreciate all the good material that has come our way in the past few weeks. Keep up the good work. SWC is going to only be as good as the material you submit.

73s till next month.



Listeners NOTEBOOK

JUNE 1978

• **Editor: Glenn Hauser, WUOT, U-Tenn.,
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ENGLISH SCHEDULES AFGHANISTAN (Cf May LN-1) Kabul is still using 15365 at 1130-1200 (Gordon Weston, BBC WRC 3/5)

ANTIGUA & ASCENSION (Cf May LN-1) BBC xmters at these sites are not beamed to SAs. Schedules headed Afghanistan and Argentina were mistakenly reversed in May London Calling (gh)

AUSTRALIA RA J78: These xmsns to Pacific Islands are on exactly the same bearing as the Nam service (63 & 73°): 1800-2030 on 9505, 100 kW. 1900-2130 on 11725 50 kW. 2200-2400 & 0100-0500 on 15320 50 kW. 0100-0500 & 0600-0730 on 17795 50 kW. 0630-1000 on 11835 10 kW. However, it is unknown whether a higher vertical angle of radiation is used. Other English: Pac: 5995 0700-0845 & 1000-2000 5995 10. 6045 1530-2000 10. 9540 2030-2200 & 0800-1500 10. 9580 1800-2200 100. 11740 0700-0900 50. 11810 1900-2200 100. 15140 2200-0600 10. 15160 2100-2400 & 0100-0500 & 0600-0700 10. 15240 2230-0730 10. PNG: 7240 1230-2030 10. 9600 2000-2200 100. 9510 1130-1300 & 1400-1730 100. 9760 0700-0845 100. 11790 2100-2300 & 0600-0845 & 1000-1200 10. 11880 1100-1300 & 1400-1730 50. 15355 2330-0530 10. 17725 0200-1000 100. EAs & NW Pac: 9510 1130-1300 & 1400-1730 100. 11880 1100-1300 & 1400-1730 50. 17725 0200-1000 100. S&SEAs: 6005 1530-1730 C250. 6035 2100-2230 C250. 9770 1000-1600 50. 11705 1000-1500 100. 11775 1500-1730 C100. 11820 2100-2330 100. 15410 2245-0300 100. 17870 0130-1000 C250. 21680 0000-0930 100. 21570 0800-1000 C100. Af: 0400-0500 & 0600-0630 15260 100 & 21525 100. Eu: 0700-0900 9570 100 & 11740 50. Nam: 0100-0300 15320 50 & 17795 50. 1100-1300 9580 50. C=Carnarvon. Other 100s & 50s & 10s Shepparton except: 5995 6045 9540 15160 15240 Lyndhurst (RA via May ADXN) Hrd to PNG at 1800 on 11800, unlisted (Richard E. Wood, NH, 9/5) This transmission is for Europe (mislaidd credit --gh)

AUSTRIA DRF J78 shows 15155 ex-15320 ex-15425 ex-15275 for the 1230-1300 Nam. Other EG: 0830-0900 6155 9605 15410 15440. 1230-1300 6155 7170 15155 17710. 1830-1900 6155 9725 15335 17745. 0130-0200 6155 9770. 0330-0400 6155 9770. 0430-0500 6015 17840. (ORF)

CHILE VOCh keeps changing their sked, but as of 13-16/4 EG was monitored at 0000 & 0130 on 15130 and at 0300 & 0430 on 15130 & 11705. As of 3-5/5, same but 15150 instead of 15130 and 0530 FR had become EG on 11705 & 15150 (Rob Harrington, CO)

ECUADOR HCJB J78 changes for Eu: 0700-0830 9665/11835 ex-11840. 1630-1800 15310/17755; 1900-2030 15300/17755 (DX Party Line 10/5 via gh)

ETHIOPIA Since 16/3, VORE EG at 1700 on 7245 in addition to 9595 (BBC MS 27/4)

FINLAND R. Finland J78: Nam: 1300-1330, Sun only 1330-1430, daily 1430-1500 on 15105 or reserve 15200. 2300-2330 on 11800 & 15265. 11800 is useless, co-channel Sweden and 5 kHz from DW. 15265 can be good depending on the Brazilian het, which seems silent Sundays. EG to elsewhere: 0800-0930 Sun only 11755 21495 +reserve 17840. Rest daily: 0930-1000 11755 15270 17840. 1300-1330 & Sun only 1330-1430 11755 15265. 1430-1500 17870 11755 6120. New times: 1930-2000 11755 15265. 2130-2200 11755 15270 (R. Finland, gh)

FRANCE RFI announced these freqs for Paris Calling Africa 10/5, 1605-1655: 21620 21580 17860 17850 17800 17720 15315 15300 15155 11845 (Wilder A. Pickard II, IL) GERMANY EAST p11

GHANA R. Ghana undated sked shows some new times, and no longer states the IS is suspended, so they may be planning to reactivate it soon; however, a check of frequencies other than 6130, which has continued on the air, shows no activity yet as of 20/5 (gh) 0700-0900 6130. 1400-1430 17870. 1445-1530 17800 probably misprint for 17870; 21545. 1600-1700 6130. 1654-1730 15285. 1815-1900 15285. 2000-2100 Nam 11850. 2000-2300 6130. 2045-2215 9545 15285 (Via Sam Barto, CT, 26/4)

GREECE VOG: 0915-0925 15160/9655. 1015-1030 15345/11760. 1215-1230 17830/15345/11730 Nam, 1515-1530 17830/15345/11730 Nam. 1815-1830 17830/15345/11925. 1920-1930 9530/7215/6140. 2115-2130 9760/9655/6140. 2245-2300 9760/6140. 0015-0030 11720/9760 Nam. 0215-0230 11730/9760 Nam (BBCMS 4/78 & Ed White, Alta, J78, via DXPL 8/5)

INDONESIA RRI Sorong has introduced their own mailbag program in English, Sats 1230-1258 on 4875 (Nobuaki Takahashi, Japan, SCDX 25/4) First noted 1/4 (Ishida, IDXR, via FEDXR) Freqs are 3364 & 4875 (Satoshi Wakisaka, FEDXR Ed.)

ITALY RAI J78: 1935-1955 9575 7290 7275. 0425-0440 7275 5990. 2025-2045 9575 7290 6050. 0350-0410 11905 9710 9630. 2200-2225 15315 11905 9710. Nam 0100-0120 15315 11810 (RAI) At times, 15315 has been swapped with Spanish and 17770 (Wilder Pickard, IL & gh)

JAPAN (Cf May LN-2) R. Japan 0800-0830 to Eu on 21535 not 21570 (Reg Holway, UK & Ritva Manninen, Finland, SCDX 2/5) Due to R. Australia 21570 (gh) At 2345-0045 they stayed on 15270 instead of 15300. Despite 10-min overlap with Austria, 15270 was wiser choice; 15300 was sandwiched between HCJB and Swiss (Wilder A. Pickard II, IL)

KOREA SOUTH We've almost caught up with R. Korea's too-frequent sked changes; this one is valid 3/4 to 4/6/78; of course, you would have had it as early as 30/4 via RCI DX Digest (gh) 0230-0300 11850 Lam. 0630-0700 9640 Nam. 1000-1030 9525 Eu 9580 Lam. 1130-1200 7150 SEAs 9650 Eu 11965 Eu. 1330-1400 11965 Eu. 1600-1630 7150 SEAs 9640 Eu 9720 Nam. 1800-1830 9720 Nam. 1930-2000 9665 Eu. 2300-2330 9640 Eu 9650 Eu. (via Bill Matthews, OH)

LEBANON R. Lebanon at 0230-0300 now on 11965 ex-11825, noted 16/5, poor to fair (John Fisher, RI) Rnz to good, an improvement to the squeezed HCJB & Habana (Pickard & gh)

NEW ZEALAND RNZ revised J78: Pac: 1800-2015 11800, 2025-0345 15380, 0400-0730 15130. 1800-2045 6105, 2100-0445 17710, 0500-1030 6105. Au: 0745-1030 9620 (via Tony King, RNZ)

PAKISTAN R. Pakistan slow-speed EG news bulletins J78: 0230-0245 SEAs 17830 21590. 0430-0445 Eaf 15325 17830 21590. 1100-1115 WEu 15115 17665. 1600-1615 ME 11672 15520 17830. There are also brief English segments in other lang BCs, see OTHER SCHEDULES (via Noel Green & Larry Magne)

POLAND Best reception for Warsaw at 0200 is on 15135; nothing on 6095! (R. Stoller, NY)

SOUTH AFRICA Radio RSA J78 (*500 kW; others 250). Eaf 0256-0426 *9585 7270 *5980 4990 and 3995. Waf 0556-0700 *17780 15220 *11900. C&Eaf+Eu Mon-Sat 1056-1156 21535 *17780. C&Eaf+Eu Mon-Fri 1258-1450 21535 *17780 15220 *11900. C&Eaf+Eu Sat & Sun 1258-1550 21535; 1258-1450 *17780 15220 *11900; 1458-1550 11800. Rest daily: Eaf & ME 1556-1650 21535 *11900 *9585 4990. Waf+Eu 2056-2150 *11900 11800 *9585 7270. Nam " & Canada" 2226-2320 *11900 9650 *9585 5980 (R. RSA)

SRI LANKA See OTHER SCHEDULES.

SWITZERLAND SBC has retimed the European xmsn at 1100 to 1200, but 1100 remains for other areas. The 2100 to Af is retimed to 1815, on 11720 15305 17830 21585 (SCDX 16/5) 21585 is heard quite well at 1815 here (gh) Other xmsns: 1100-1130 Af 15430 17830 21520 21630. 1530-1600 11870. 0700-0730 & 0900-0930 Au + FE 9560 11780 15305; S&SEAs 21520, 1315-1345 15350 17830 21520. N&ME 1530-1600 17830 21570. SAM 1815-1845 21585 also. N&CAM 0145-0215 6135 9725 11715 15305 SSB=11780. 0430-0500 9725 11715. 1315-1345 15140 SSB=17740 (DX Party Line 8/5 and R. Australia DX 14/5) 15140 is so bad when supposedly to us at 1315 that I suspect the signal is going off in some extraneous direction as they admitted happened before. SSB 17740 is fair but QRMed; SSB 11780 is useless due to QRM, and who needs it with 15305 pristine on AM? Hmm, not pristen as I reported elsewhere! Hi (gh)

URUGUAY SODRE now has regular EG 0030-0050 on 9515 11885 (Volker Speck, GFR, SCDX 25/4)

U S A Tho sked on 6155 at 0100-0500 for J78, WYFR has been using 5985 instead (gh) AFRTS J78: Eu+Af: Bethany: 11790 0000-0500, 9685 0500-1200, 15330 1200-1400, 15430 1800-2400; Greenville: 15430 1200-1400, 11790 1800-2300, 6030 2300-1200. Carib+Antarctica: Bethany: 6030 0100-0500, 9755 0500-1200, 15330 1200-1400 & 1800-0100. Pac+FE: Dixon: 11835 0900-1400, 9700 1000-1400, 17765 1800-0900, 15330 1800-1000. (Louis Goldstein, May REVIEW OF INTERNATIONAL BROADCASTING)

U S S R R. Moscow extensively reorganized EG BCs on 20/4. There are now nearly continuous EG programs around the clock. Many programs are transmitted to areas other than the announced primary target. The 0400-0700 Af also to S&SEAs; 0700-1100 S&SEAs also to Af, resulting in a very complicated and confusing sked, with as many as 25 freqs on some pgms. The GB pgms are also to Af. Best daytime reception in ENAM is on 15150 at 1100-1530 with a mixture of pgms announced for S&SEAs, GB and Af, with no noticeable beam change, this freq apparently beamed to GB, same as NAM. Here is the revised sked to SAs, Af, GB: 0400-0700 Af (formerly 0345-0400 & 0445-0500) 1430-1630 S&SEAs, RSP&P alternating R Moscow 0700-1100 S&SEAs (ex 1000-1030 & 1100-1130) 1430-1500 Af, R. Station Peace & Progress 1100-1400 R. Station Peace & Progress S&SEAs 1500-1530, 1630-1700, 1830-1900, 2000-2100 1300-1500 GB & Ireland (formerly 1130-1230) Af, R. Moscow 1330-1400 Sierra Leone 1900-2000 & 2100-2345 GB & Ireland (UHN)

U S S R (continued) Also to Af at 1530-1600. The ANZ service at 0800-1000 appears to have been dropped/absorbed into expanded S&SEAs service. The 1330-1400 portion of the GB & I service is also transmitted on 5960, 1250 and 629 kHz from FE sites (BBCMS) NAm service now opens 2300 ex-2230, sked with listed/QSL site, followed by actual site in brackets:

To East North America 2300-0400

11960 Kenga (Novosibirsk)
11850 Vinnitsa (Simferopol') to 0100
11770 Kiev (Nikolayev)
11750 Lvov (Plovdiv, Bulgaria)
11735 Vinnitsa (Sofia) to 0300
11720 -- (Vinnitsa)
9700 -- (Sofia) from 0130
9685 Moscow (Simferopol') from 0130
9530 Moscow (Simferopol')

To West North America 2300-0300

15425 Petropavlovsk (Petropavlovsk)
15245 Nikolayevsk (Petropavlovsk)
15100 Khabarovsk (Vladivostok)
12050 Khabarovsk (Petropavlovsk)
12030 -- (Petropavlovsk)

Feeders:

12040 -- (Novosibirsk ?)
9635 Vladivostok (Khabarovsk)

Feeders: 7380 Moscow, 6175 Moscow
R. Kiev 0030-0100 to ENAm 9600 9800 11780; WNAm 15186 15405. 0300-0330 ENAm 9775 9800 11780 12060; WNAm 12030 12050 15425. R. Vilnius ENAm 2300-2330 9600 11780 11790 12060; WNAm 15180 15405 (USSR HF Broadcast Newsletter = Roger Legge, VA) Vilnius also on 11870 (Mike Megharian, NY. 30/4) R. Kiev announced that from 20/4 their EG to Eu moved to 2030 ex-1930 (Mike Barraclough, UK)

VATICAN Part of Vatican Radio's current EG sked: Mon-Fri 1615 to SEAs on 11810 15120 and 17825; 2310 to SAs, ANZ on 7235 9615 11705 (R. Australia Japanese DX 14/5) These times are in CET, not GMT! So should read 1515, and 2210 (gh)

OTHER SCHEDULES

CHINA Fukien Front radio net, operated by PLA, observed:

First net (in Std. Chinese) 1000-0530: 7850 1000-1414 & 0000-0530. 6765 1000-1414 & 0000-0530. 5900 1000-1443 & 2311-0530. 5265 1000-1559 & 2234-0530. 5240 1000-1559 & 2234-0530. 4330 1415-2400. 4045 1000-0530. 3640 1600-2233. 3535 1600-2233. 3000 1444-2310. 2490 1415-2400. Second net (0230-0745 & 0930-1900 Amoy; 0745-0930 in Std. Chinese): 8195 & 7280 0230-1359. 7025 & 6400 & 6000 0230-1514. 5770 0230-1119. 5170 & 4840 & 4380 0230-1900. 4140 1121-1900. 3900 1515-1900. 3400 1400-1900. 3300 1515-1900. 3200 1400-1900. 2600 1515-1900. There is a break in xmsn, presumably for maintenance, on 10th and 25th day of every month at 0530-1000 (BBCMS 20/4)

CYPRUS Per Cypriot newspaper 'Eleftheri Kipros', CBC in GK to Cypriots in the UK is BC as from 7/5 on Fri/Sat/Sun at 2215 on 9770 7190 6155; via BBC EMR (BBCMS 12/5) Cyprus Radio have changed 9775 to 9575 on their 2215-2230 GK to UK; //6150/7190 (R. Australia DX 14/5)

CHILE VOCh non-EG monitored as of 13-16/4: SP at 2300, 0030, 0200, 0330, 0500; FR at 2330, 0100, 0230, 0400, 0530; on 11705 at 0300-0600, 15130 2300-0600. On 3-5/5 observed at 2200 GM, 2230 IT on 15150 & 17713. SP 2300, 0030, 0200, 0330, 0500; FR 2330, 0100, 0230, 0400, but not at 0530; At 2300-0300 on 15150; 0300-0600 11705 & 15150 (Rob Harrington, CO)

ECUADOR New R. Amazonas in northeast is first SW stn in that region, on 3290 1000-1600 & 2200-0400. This is a commercial stn with mx and ads, not to be confused with the R. Amazonas in the SW jungle area on 4870. It is a mission stn owned by the Gospel Mission Union (Bert Pittick, April WDXC Contact)

EGYPT R. Cairo's 'Voice of the Arabs' pgm in AR is currently on this sked: 0300-0600 on 9850 9770 7050. 0800-1120 17745 15475. 1120-1400 17745 15475. 1500-1900 15475. 1900-2100 11785 9705 7050. 2100-0030 9705 7050. (BBCMS 27/4)

ETHIOPIA VORE National Service in Amharic, Galla, Tigrigna: 0330-0600 (Sun 0430-0900) on 7110 5985, 4905. 1000-1200 (Sat-1300, Sun-1400) on 7100 5985. Daily 1430-2000 on 7100 and 5985 (BBCMS 4/78)

GERMANY EAST Stimme der DDR home service operates continuously via Koenigswusterhausen on 7185 and 6115 except for a Mon-Fri break at 0800-1100 (BBCMS 3/78 from 'FF Dabel')

INDONESIA Current survey of RRI stations. Nusantara I network key station is Medan. At 1400 all RRIs Nusantara I net relay Medan pgm "Varia Nusantara Satu". Skeds: Medan 3414 +1200-1500* (not //4765v), 4765v +1200-1700*. Banda Aceh 3905 +1300-1500v* (often to 1600*) 4955 +1300-1600*. Pekanbaru 5887 +1200-1600* local news at 1545. Sibolga 5260 +1200-1600* local news 1530. Padang 3962 +1200-1620v* local news 1600. Palembang 4856 +1100-1600*, local news 1130. Bukittinggi 3232 +1400-1500+, 4885 +1100-1600* local news 1545. Tanjung Karang 3395 +1200-1600*. Tanjung Pinang 3225 +1200-1520v*. Pankalpinang 3385 +1500-1520v* Not heard are Jambi 4927 and Bengkulu 3265. Nusantara II keystation is Yogyakarta. At 1400 stns in propinsi Jawa Barat relay RRI-Bandung news; stns in propinsi Jawa Timur relay RRI Surabaya news. Yogyakarta 2350 +1200-1600+, 5047 +1400-1700* local news 1400. Bandung 3205 +1100-1400+ local news 1100 & 1400. Surakarta 4932 +1100-1600*. Surabaya 3975 +1100-1400+. Semarang 3935 +1100-1300+. Denpasar 3945 +1100-1400+. Jakarta-Raya. RRI Jakarta programasional news bulletins are relayed by all Indonesian stations. Programa Nasional: 15202 +0500-0900+. 6045 +1300-1400+, 4805 +1100-1300+. Programa Khusus 4774 +1130-1600*,

3277 +1100-1400+. Programa Kota 2452 +1400-1500+. Nusantara III keystation is RRI Banjarmasin. At 1400, stns in this net broadcast their own news. Banjarmasin 3250v +1200-1520*, Palangka Raya 3325 +1100-1520*, 5205 +1100-1400+ local news 1100 & 1400. Pontianak 3995 +1400-1520*. Samarinda 3294 +1100-1520* local news 1100 & 1400. Nusantara IV keystation is RRI Ujung Pandang: 4719 +1030-1300v*, 4754 +1300-1400+, local news 1100. Manado 3215 +1030-1520*, 5987 +0930-1520* local news 1400. Gorontalo 3265 +1000-1520*, 4900 +1000-1400+ local news 1400. Kendari 4000 +1000-1520*. Palu 3960 +1100-1520* local news 1100. Dili 2456 +1100-1520*, 3120 +1000-1520* local news 1100. Nusantara V keystation RRI Jayapura; at 1000, all stns in this net relay Jayapura news. Jayapura 11942 *2055-2300+, 6070 *0800-1400*, 4980 *0800-1400*. Sorong 3364 +1200-1400*, 4875 +0900-1400* local news 0830 & 1100. Fak Fak 4789 +0900-1220v* local news 1030. Biak 3984 +1000-1400*. Manokwari 3427 +1000-1400*, 6185 +0830-1030+ local news 1100. Ambon 3241 +0930-1400*, 4845 +0900-1400* local nx 1030. Ternate 3345 +0930-1415*, 3916 +1000-1415* local news 1100 & 1400. Monitored Jan-Apr 1978 by Indonesian DX Circle members Atsunori Ishida, Nagoya; Kazuhiko Kawasaki, Tokyo; Satoshi Wakisaka (Ed.), Osaka, FE DX Review 30/4. + means approx fade in/out times.

IRAQ R. Baghdad ES in Farsi 0730-1030 & 1600-1900 and Urdu 1300-1400 are now on 11725 only, so "Voice of the Masses" DS in Arabic has moved from 11725 to 11925 (BBCMS 27/4)

ITALY RAI J78 to Americas: Italian 2230-0100 & 0140-0305 on 17770 15385 15315 11905 11810. Spanish on same at 0305-0325. Spanish at 0100-0120 on 17770 15385 11905, Portuguese at 0120-0135 on same, whilst other two are in EG & FR respectively (RAI via gh)

KERGUELEN ISLAND France Regions 3, Kerguelen, will start BCs to the French on the islands in the Indian Ocean and Antarctica, 0000-0305 & 1500-1800 on 3335 with 4 kW; 0915-1300 on 15295 with 20 kW. The tests will start May 1, consisting of French musik interrupted by IDs; regular programmes will follow shortly. Correct reports will be QSLed, to: FR3, Base Dumont D'Urville, Île Kerguelen, Terres Australes & Antarctiques Françaises (Jean Michel Bourque, Besançon, France, SCDX 2/5) We have not had any info on this stn from anywhere else, so we would like to have it checked and confirmed (Bengt Dalhammar, SCDX editor) On 3/5 I tuned in around 1155 on 15295 and heard intermittent tone tests, but no music or ID. The transmitter went off promptly at 1200. Subsequent checks have produced only R. Moscow on the frequency (gh)

KOREA SOUTH R. Korea obs to ME at 0800-1030 on 14900, possibly 2 x unheard 7450; in Arabic to 0830, then Korean (BBCMS 4/5)

MALAYSIA WEST VOM ES same as in WRTVH 78 except 0900-1600 Indo on 6175 + 9750 (BBCMS 4/78)

NIGERIA NBC regional skeds match WRTVH 78 but add Ilorin, Kwara State, 7145 kHz, 0430-2305 (NBC via BBCMS 4/78)

PAKISTAN R. Pakistan J78, external services:	1100-1200 Burmese	17800 21590
0045-0210 Natl Pgm for Burma	1215-1315 Turki	9690 11885
0100-0245 Bangla	1330-1430 W.S. Persian Gulf	15520
0200-0245 Indonesian	ME	17830 21590
0300-0345 Swahili	1445-1600 W.S. Persian Gulf	11672
0345-0430 Gujrati	ME	15520 17830
0500-0700 W.S. EAF	1345-1600 Bangla	9660 11885
0500-0815 W.S. Persian Gulf	1645-1745 Irani	7165 9690
India	1715-1845 Arabic	11672 15520
ME	1800-1900 Turkish	9790 11885
0715-1100 W.S. UK	1915-2015 French	11640 15520
0830-1000 Hindi	1915-2145 W.S. UK	7095 9460
1000-1045 Tamil	2345-0045 W.S. SE Asia	9645 11750 15420
	(via Noel Green, UK, via Larry Magne, PA)	

Home Services: Islamabad: 3915 1630-1810. 5010 0215-0415. 5060 0045-0210, 1200-1325, 1400-1615, 1630-1810. 5110 1300-1600. 7135 0045-0325, 0350-0400, 0600-0803, 0830-1100, 1400-1410, 1430-1440, 1500-1615. 7290 0830-0945, 1005-1008 Fri. 9545 0600-0603, 0700-0703, 0800-0803, 0900-0903, 1000-1005 (Fri 1008), 1050-1057, 1200-1325. Link Service, Karachi: 2345-0045 4735 10 kW. 0300-0430 9645 50. 0500-0815 9645 50. 1330-1430 9645 50. 1445-1600 9645 50. 1715-1845 6115 10. 1915-2145 6115 10. Islamabad: 0430-0445 9545 10 kW.

Regional Services: Peshawar 10 kW: 3155 0045-0415 (Fri 0445), 1430-1810. 5760 0600-1415--exc Fri, 0600-0803, 1000-1415 Fri. Quetta 10 kW: 3240 0045-0400 (Fri 0345). 5980 0600-1030 (Fri 0600-0803 & 1000-1030), 1045-1345, 1400-1600. Rawalpindi 10 kW: 3335 0045-0400 (Fri 0500), 1430-1900. 5010 0600-1100 (Fri 0600-0803 & 1000-1100), 1200-1410. Balti & Sheena services: Balti 100 kW 4935 0300-0400, 6030 1130-1330. Sheena 100 kW 5110 0300-0400, 7265 1000-1200 (Noel Green, UK, via Larry Magne, PA)

SRI LANKA Some corrections to SLBC skeds: Sinhala Channel 1 & 2 now commence at 0000 (ex 0015). Special All Night Service (Pirith Chanting) on Full Moon Days, on Sinhala Channel 1 is 1600-2400 on 4902, 1730-2400 on 3395. 3395 has been shifted from Sinhala Channel 2 to English Channel 1 at 1330-1730 Mon-Fri and 1230-1730 Sat/Sun. All Asia Service, Hindi: 0030-0430 7190 11800; 0630 (Sun 0430)-0830 7190 11800 15120. 1330-1730 7190 11800 (including on Wed Nepali 0330-0400, Sat Nepali 1400-1430, Thu Marathi 1615-1630, Fri Urdu 1615-

1630) All Asia Service, English: 0030-0230 6005 9720 15425, 0230-0430 9720 15425, 1230-1730 6075 9720 15425. SEAs Service, English: 1030-1130 11835 15120 17850 (Wed & Sun 1030-1045 Sinhala, Mon 1100-1115, Fri 1030-1045 Japanese). European & ME Service, English: 1845-1945 11870 15120 (312°), 15115 17850 (260°) (Oliver T. Goonawardena, Sri Lanka, 18/4)

U S A KGEI's tentative J78 sked to FE & Asia was 9555 0700-1000 & 1300-1400. 9580 1000-1200, 9540 1200-1300 (R. Australia Club Forum 20/5 via gh; or was it 9530?) VOA has moved up to 13m in a big way, i.e. QR Ming R. RSA on 21535. Here's their complete 13m sked for J78 not including amendments: 21460 DL-100 FE 2200-0100. 21470 GR-50 Eu 1330-2000. 21485 BY-250 Af 1600-2300. 21500 BY-250 Af 1815-2230. 21535 GR-250 Eur 1630-2230. 21570 Kavala 250 USSR 1200-1400. 21600 Monrovia-50 Eaf 1615-1730. 21610 Tangier-35 USSR 1330-1600 & SAs/ME 1600-1800. 21610 DX-250 2200-2400 Oceania. 21670 GR-250 Eur 1600-2000, also available for UN to Af 1200-2345. 21690 Monrovia-50 Brazil 0945-1100. 21690 GR-250 Naf 1800-2200. 21745 DL-100 FE 2130-0100. (VOA) UPPER VOLTA LN-7

U S S R R. Moscow to WI/CAM 2300-0400: Spanish, except 0130-0200 R.S.P&P Creole; Spanish to Cuba 0000-0130; to CAM 0300-0330; to LAM 2300-0000, 0200-0300, 0330-0400 in parallel with SAM beam freqs.

15500 --	to 0130	11790 Riazan	to 0130
15135 --	(Plovdiv) to 0100	9775 Michurinsk	0200-0300
12060 Voronezh	to 0300	9450 Moscow	
11920 Moscow (Armavir)		5905 --	(feeder)

R. Moscow & R. St. Rodina (2330-0030, 0200-0300) to Americas, 2300-0400: 7420 (to 0300), 9480 (to 0330), 9550, 9560, 9590 (to 0300), 9640, 9720 (to 0300), 9785, 12000.

R. Station Peace & Progress Spanish to Central America 0400-0430 5905 9450 9470 11630 11750 11850 11890 11900 11920. R. Moscow to SAM 2200-0400: Spanish 2230-0400, Portuguese 2200-0130. Portuguese replaces Quechua 2300-2400.

15465 --	(Nikolayev)	11860 Gorky	
15210 --	(Yerevan) to 0200	11830 Moscow	
15195 --	(Dushanbé) to 0100	11805 Tbilisi (Yerevan)	from 0200
12070 Kiev		11745 Minsk	
12020 Riga (?) (Moscow)		11710 Tbilisi	
12010 Serpukhov	from 2230	11700 --	(Dushanbé)
11980 Moscow	from 2230	11690 Moscow	to 0300
11930 Ashkhabad (Dushanbé) from 0130		11630 Moscow	
11900 Moscow		9795 Serpukhov	from 2230
11890 Riazan (Armavir)		9470 Moscow	
11880 Armavir (Simferopol')			(U H N)

MISCELÁNEA RADIAL

ARGENTINA (Cf May LN-6) gh's report on R. Rivadavia 9115 is of feeder transmissions which R. Rivadavia has with affiliates of the "cadena de la amistad deportiva" which range from Antarctica to two stations in the USA, and at times some Spain stations in the SER net (N. Rubio, Marpla DX Club, via Play-DX 2/5) R. Rivadavia hrd on approx 5878 2/5 in AM mode at 2322 with soccer, IDs, fq as 630 MW; strong SIO 454 signals (Richard Stoller, NY)

AUSTRIA ORF provides this tally of listeners' reports it has received on cassettes & tapes during 1977. 459 total, from 185 various SWLs from 35 countries, with a duration of 463 hours. A complete breakdown by country and length of tape is available from (Austrian R., Technical Dept. P O Box 200, A-1043 Vienna)

BOLIVIA Two stations not to be confused, in Riberalta are: On 3465, ex-4701 to 0200*, R. San Miguel; On new 4775 to 0500*, R. Riberalta (Jan Tunér, DX Juke Box 12/5) All but certain log of R. Alfonso Padilla Vega, 2/5 at 0012, various LAM vocals good at start but mess by 0100 tuneout (Richard Stoller, NY) on characteristic fq of approx 3482

BRAZIL The sta on 3305 has been IDing for some time as R. Mauá; don't know if an official name change from R. Clube do Grande Rio (Tony Jones, Paraguay, 3/5) R. Clube Ribeirão Preto varying lately 15418-15422 around 2200-0130. Tupi harmonic hrd 17/4 at 2112 on 23530 (Richard Stoller, NY)

CHINA The external service from Peking, tho it will continue to announce on the air as R. Peking, will be known from 1/5 as the "International Broadcasting Station of the PRC" (BBC)

COLOMBIA R. Nacional keeps registering fantastic unused frequencies, like 25750 at 0600-2400 to NWSAm, 25 kW non-directional, with the ITU (Larry Magne, PA)

CUBA R. Rebelde harmonic again being heard on 4720, 8 x 590 (Terry Krueger, FL, 11/5) Don't you believe that Cuba is relaying Moscow, as Orloff reported in May UPDATE (gh)

DOMINICAN REPUBLIC R. Clarín's international service costs some \$5000 per month to run. As a private station, R. Clarín cannot keep in stock a complete supply of spare parts, so when something goes wrong, we have to go off the air for a few days until the part can be flown in from the USA. Our four EG xmsns will at first be identical, but depending on response, we may start regional mailbags in a couple months (Rudy Espinal, R. Clarín 29/4)

ECUADOR (Cf LN-3) R. Amazonas heard 10/5 on 3290 0210-0405 (Terry Krueger, FL) There was a big story in the 15/5 Washington Post, page C1 & C4, about Oran V. Jarrell, "God's Truck-stop Man", a multi-millionaire who runs a truck plaza on I-95 some 25 miles north of Richmond VA, and gave \$1000 a month for 10 years to HCJB, according to Steve Hunter, VP for R&D of WRMF, who flew up to present Jarrell with an Ecuadorian sheepskin inscribed with a flowery thank you for his generosity. Hunter says HCJB would not be broadcasting God's Word to 85% of the earth's land area without OVJ's help (Hadley W. Cress, VA) As of 4/3, HCJB is using an entirely new control for airing programs with new, better-quality tape recorders. This is part of HCJB's PACS system and is the first step towards computerizing the broadcasting. It is presently still manually operated, but the computer is scheduled to come later this year (Clayton Howard, via April AIDX Journal)

FINLAND R. Finland wants to know what else its listeners listen to. So we're organising a competition to find out, with reindeer skins as prizes, to the first five in a random drawing 1/7 and announced on that day's "International Letterbox". Honesty, please, in all entries. To enter, send your answers to these questions to Letterbox Competition, Radio Finland, Box 95, Helsinki 25: 1) What, in your opinion, are the best five news or current events programs on shortwave? Put in order of preference, and say what station each is on. 2) Which five music programs on shortwave do you enjoy most? Put in order of preference and say which station each is on. 3) What do you think are the best five feature programs on shortwave? Put in order of preference and say which station each is on. 4) How often do you listen to Radio Finland? Often, sometimes, or never? Notes: English language programs only; if you cannot complete all five places, do not. Don't forget your name and address on the same sheet in order to be eligible to win. There will also be prizes of Finnish musical selections for the runners-up. Good listening, and good luck! (R. Finland)

INTERNATIONAL WATERS The Voice of Peace had intended to close down 28/2 after IBA issued a survey claiming the stn had very few listeners, and advertisers withdrew support. Abie Nathan, owner of the Peace Ship, made a last minute appeal for listeners to meet in a Tel Aviv square. 60000 people showed up, advertising flooded in, and the VOP stayed on the air. So far the station has raised more than 2 million pounds for worldwide charities. VOP is testing again on SW, 6250 kHz // 1538 kHz (SCDX 2/5)

ISRAEL In case you heard something strange on IBA SW freqs, all-night 10/5 2305 to about 0390 11/5, it was a special one-time-only relay on SW of the new "Reshet Giml" pop music program, Nathan's nemesis, because they were holding a raffle. It was arranged on extremely short notice, preventing us from publicizing it in advance thru DX media (Larry Magne, PA)

JAPAN FEN SW outlets 15260 & 11750 have been off the air at the end of April; 6155 & 3910 and MW remain on the air. As you know, FEN studio moves from Asaka to Yokota base, and this operation will be finished in April. So it's may be deep relations with it (Yoshiaki Hayashi, FEDXR 30/4)

LIBERIA VOA Monrovia heard weakly on 24020 20/4 at 1910, 2 x 12010 (Richard Stoller, NY) Don't confuse with BBC-Ascension at other times, 4 x 6005 (gh)

MEXICO From Jorge V. Villalobos G.: "R. Huayacocotla transmite diariamente de las 16.00 a las 20.00 hora de México en 2390 kHz con 500 watts de potencia. Es una difusora cultural y educativa." (via Tom Overcamp, SC, 12/5)

PERU R. Juliaca has reactivated 5017. The 4762 station IDs at 0400 not as R. Inca, but as "Inca Radio". R. Nacional Tacna heard on 9653 around 0030 (Jan Tunér, DX Juke Box 12/5)

PHILIPPINES AFRTS observed on 21700 ex usual 21670 on 24/4 in 0530-0700 period. Needs recheck to establish whether permanent, or error (Bob Padula, ADXN) Since end of March, a stn called "Voice of Love" hrd 1230-1245 on 9715, strong signal. It broadcasts FEBC's German pgm, "Stimme der Liebe", also with English anmt at closing as "Voice of Love" and studio at Iba. It's may be broadcasted over FEBC's transmitter, because it uses DZF-5 as call-sign that the same one of FEBC's on this frequency. But, using transmitter is different one with the time uses by FEBC. On 7/4 this stn's signal was covered by the FEBC carrier with musics and starts Japanese service at 1300. Therefore, this stn will be someone having a relationship with FEBC. I don't know why they broadcast German from Philippines. (Yoshiaki Hayashi, FEDXR)

SPAIN REE DX editor Ambrosio Wang says 63% of NAM listeners report 11880 is best and 53% that 6065 is best. In 1977 they experienced a 133% increase in technical SINPO reports, with a 24% increase in number of letters. Total of 10,238 letters for English & Spanish in 1977. In Jan 78 they received 160 letters from Canada and 500 from US--a greater response from Canadians, with 1/10 the population of the US. The R. Nacional facilities are only 5 years old and about 25 minutes outside Madrid by bus. Getting into them there's bureaucratic security check but after on the grounds no security at all really. But next door there's a barracks for an army regiment (David James, Québec, May REVIEW OF INTERNATIONAL BROADCASTING)

SRI LANKA SLBC has a very successful Hindi and English commercial service beamed to India. Advertising brought in a great deal of revenue in the past, but with the printed media now vastly developed in India, the service gets 75% of its money from religious organizations like AWR who buy air time. The service (not the religious segments) is so popular, especially the musical request programmes, that Indian shops sell printed postcards for SLBC musical request programmes. They get about 25 mailbags from Madras alone every week! (Victor Goonetilleke, Sri Lanka, May REVIEW OF INTERNATIONAL BROADCASTING)

SWAZILAND Swazi Commercial Radio is a station attempting to meet all aspirations in a cosmopolitan society. Their Swazi Music Radio directed to Blacks is reaping huge responses from audiences in Salisbury to Cape Town. The format is New Orleans blues and jazz presented by American Negro announcers. The response has amounted to thousands of letters a week from an audience not know to communicate with local radio before. So it's a big breakthrough. A highly successful venture in what was a pretty closed market (Gerry E. Wood, South Africa, May REVIEW OF INTERNATIONAL BROADCASTING)

SWEDEN (Cf May LN-3) R. Sweden is using only two xmtrs. This is so that each of our three xmtrs can in turn go thru maintenance. The third will also become our reserve xmtr. The first to be withdrawn is our Karlsborg xmtr (Gunilla Arnö, R. Sweden, SCDX 9/5) The Karlsborg antenna will be modified during this summer (Tage Ullman, STA, 21/4)

UGANDA UBC heard on 15325 at 0330 19/5 announcing a test to the USA, and asking for reports (Jim Conrad, IA) Thanks for the call, Jim. I tuned right in and also heard a French anmt, before they went off around 0335 (gh)

U S A For the record in case you haven't noticed, AFRTS has started rebroadcasting time signals from WWV, on the hour and half hour, except when sports in progress (Jack Jones & gh) AFRTS-W heard on LSB 16454.25 kHz with a feeder 19/4 from 1835 past 1900 (Gordon Darling, UK, WDXC Mid-Monther) **WYFR**. A storm of major proportions swept across the NE USA in early February. The destructive power of the sea, the fury of winds and waves, and the effects of snow and ice took their toll at the oceanfront site of Family Radio in Scituate MA. Just six weeks earlier all our antennas and xmsn lines had been inspected and maintained to minimize problems during the hard winter months. But this was no match for three inches of ice loading and 90 mph winds that beat against lines and towers. Lines stretched and sagged under the weight of the ice, finally crashing to the ground with a sickening thud. Towers and poles fell, breaking more lines, ripping out insulators and supports. The storm damaged all nine antenna systems. WYFR went silent due to the weather. It took three long days for even the first xmtr to return to the air. Our Lord spared us, etc., etc.... (Harold Camping, WYFR, via Tom Overcamp, SC)

International Communication Agency, an agency of the Executive Branch of the US Govt, HQ in Washington DC, came into being April 1, 1978. Its Director, John E. Reinhardt, reports to the President of the US and to the Secretary of State. One of four Associate Directors is in charge of the VOA. The ICA appropriation request for FY 1979 is \$413 million. VOA sends out 803 hours of programming a week in 36 languages via SW and MW to an estimated 75 million listeners. A total of 109 active xmtrs are employed here and overseas, generating a total power of 21 million watts. There are 25 studios in Washington, 3 in NYC, 1 each in Chicago, Los Angeles, Miami. Its operating budget for FY 1978 was \$67,300,000 (ICA press releases via Tom Blossom, OH)

U S S R R. Moscow's coverage of the May Day Parade was as in previous years, broadcast in Russian only direct from Red Square for domestic and overseas listeners, at 0650-0906 on a total of 56 SW channels between 5.9 and 21.8 MHz (BECMS 4/5) An annual event, as is the anniversary of the Oct. revolution coverage, usually missed in the NAM night (gh) R.St. Atlantika heard on 29160 17/4 at 1714, SIO 252, ID 1727. 3 x 9720, or 4 x 7290 (Stoller) Non-sequitur-of-the-month award goes to O. Sergeeva of R. Moscow who, in response to my observation that a tape addressed to R. Alma Ata had been intercepted and returned by the Soviet postal authorities, said: "It is rather difficult to say why the tape recording was sent to you back. Maybe the reason is that Radio Alma Ata does not have Foreign Service." (Jerry Berg, MA)

UPPER VOLTA (oops, and should have been in OTHER SCHEDULES) RTVU Ouagadougou sent me a sked differing from WRVH: 4815 0530-0900, 1700-2400; Sat/Sun s/on is 0700. 7230 Thu/Sat/Sun 0900-1700; other days 1200-1400, 1600-1700, in FR, EG, vernaculars (Barracough, 16/4)

YEMEN NORTH R. San'a obs to 2110* on new 4976 with very good strength in AR, 21/4 (Vesa Komulainen, Finland, SCDX 2/5) Hrd only a few days ago on old 4835, but very disturbed (Bengt Dalhammar, SCDX Ed.) On new 4975 in AR to 2115* daily ex-4853 during late April; however, last minute obs indicate back on 4853, so move to 4975 apparently only experimental (R. Australia Japanese DX, Bob Padula, 7/5)

CORREXIONS

ANTIGUA (Cf May LN-1) BBC ultimately decided to use 17845, not 17830 at 2000-2115 for the WS, so the harmonic would be on 35690.

U S A (Cf May LN-3) The NMN Gulf Stream Bulletins remain at 1600 & 2200 but the freqs, as announced, had already changed to: 6506.4 8765.4 13113.2 (gh)

CLANDESTINE CRANNY

Radio Restafari International via facilities of Skyport Radio, hrd on 6260-9/4 at 1300-1405* carrying excerpts from various anti-US speeches made at the Commonwealth Youth Conference last year, and interview on Black Consciousness movement and reggae music. Off with vocal version of the Internationale. This one is drifting over the thin dividing line between a pirate and a political clandestine (Gordon Darling, UK, WDXC Mid-Monther)

Voice of Palestine, Voice of Palestine Revolution announced it would BC on "196 metres" at 0400-0500, 1000-1100 and 1600-1800 from 1/5. It operates on 1520 kHz. Despite this amt the 0400 & 1000 xmsns were not traced on 1/5 (BBCMS 4/5)

Voice of the Voyageur changed to 0400 GMT Sun, and maybe Sat, due to DST as of 7/5, on 5850 kHz. 13 QSLs have been sent out so far. Reporting via 'any major DX club' no longer includes ASWLC, as we no longer see their magazine (VOV 5/5 via gh) VOV heard 30/4 at *0500-0534*, fair to poor. They kept giving the phone number 415-285-0045, tho I never heard them answer any calls on the air. Power announced as "600 watts of insanity". They signed off early because they 'had' to. Announced selves as "Champions of bootleg broadcasting" (Michael Maghakian, 2819 Morris Ave, Bronx NY 10468) Hand-lettered QSL sheet received, postmarked Detroit MI. Power given as "100 Watts of Insanity (sic) from the Frozen North!" (gh) They may try a frequency around 17675 kHz during Sunday daytime (gh) More, LN-11

"Thermometer" was the word following coded groups heard on 3922 until suddenly off at 0626 15/5. Also a station on 3894 with horrid modulation playing music, and maybe CST time, at 0615-0620 15/5 (Creede Lambard, MT)

R. Abdala heard 10/5 on 7080 at 0135 tune in, good signals but crummy distorted modulation. Both male and female speakers attacking Castro, communism, involvement of Cuban troops in Africa, talks broken up with brief instrumental music. I mistakenly assumed this was Rebelde in a phoned report to Tom Alleman for Update. Complete ID at 0200 as R. Abdala with music from "2001, A Space Odyssey". Gave some sort of Miami address, but didn't catch it; off at 0210. Heavy CW QRM. Also hrd 12/5 from 0122 on 7082. Worthless opinion: listening to the production of R. Abdala, am convinced it's a stateside operation, produced in the Miami area and broadcast from a nearby site (Harry Helms, SC)

R. Rebelde heard 9/5 at 0303 on 7080, but better sigs 10/5 at 0253 on 7088, but carrier went off a few times and once returned on 7089.5. Modulation fell out for brief periods. Off promptly at 0300. Again 12/5 on 7089 from 0201. In contrast to Abdala, Rebelde has all the earmarks of an operation inside of Cuba itself, especially the rather sparse production (no music, special effects, etc.) and seemingly extemporaneous delivery of the announcer. It sounds very much like an amateur station doing double duty (Harry Helms, SC)

Numbers Stations On 9980 while trying for Pyongyang, heard woman with oriental accent reading numbers in many langs, incl. English and German, 11/4 at 2340, SINPO 44554 (Roger Reini, TX) A sudden upsurge in 5-digit Spanish numbers noted during April in the 0400-0530 period on frequencies such as 3450, 3456, 4665, 3465, 3100, 3460, 3120 (Robert Rohr, TX, SWNS)

FUTURE PLANS

AUSTRIA ORF is to expand the Moosbrunn site, first constructing a rotatable curtain array and a parallel coupling net for 2 xmtrs allowing total of 200 kW, to be completed by 1981. Second, construction of a highgain omni antenna and replacing an existing 100 kW antenna with one of 250 kW, by 1983. The whole operation is estimated to cost over 3½ million pounds (SCDX 16/5, Report from Austria via WDXC Contact; Espacio DXista 12/5 via gh)

BRAZIL RNB QSL says they plan to reintroduce the international service at the end of this year (Allen Dean, WDXC Contact) Cf May LN-11, here is a less edited version: It is not valid to speculate with DENTEL engineers or bureaucrats. The info you previously published from the ANARC Newsletter came from an official magazine, via a member of our club. If you look at it carefully, you will see that the great majority of stations could not go to the tropical bands because of the simple fact that they are in cities outside the tropical part of the country. DENTEL does not grant tropical licenses to cities below the Tropic of Capricorn. If you are an optimist, you would anticipate that if RNB really comes back on a large scale, as press reports keep saying, with an external service, Brasil will be needing almost all the channels the ITU can grant. Official stations will continue on SW, and they should be modernized, transmitting to the interior. Almost all the stations now on SW would be permitted substantial power increases on MW--50 or 100 or 200 kW. Now, 50 or 200 kW at nite on MW works better than 1 kW on tropical bands at night. Here in Brasil the stations which have a tropical frequency generally operate with low power on MW. So you see, it's a complex matter. I have no official connexion; my source in the past as it will be in the future is "Diário Oficial da União" (Luiz Roberto de Medina, DX Clube do Brasil) The person who made the statement to which I referred was in a position to make such a statement. It was made to someone working in the same field of activity and who is 100% reliable. I do not know if the idea of a move to the tropical bands was merely an idea, intention, or whatever. I was merely reporting a statement, made unofficially (Tony Jones)

EGYPT R. Cairo reported that the Minister of Info & Culture said there are plans to improve radio broadcasting in Egypt, including the establishment of stations for Radio Cairo International Service (BBCMS 27/4)

GERMANY WEST Hard on the heels of the legalization of 'free radio' in Italy, which has led to a chaotic jumble of more than 500 private radio & TV stations on MW, SW, VHF and UHF, a proposal has been made for the legalization of such broadcasting in hitherto tightly-controlled West Germany. A seminar at the Trier University law school during the 1977-78 winter semester was entitled "Legal Questions on a Law on Private Radio" and considered all practical, legal, political, technical and economic aspects (Richard E. Wood, NH)

NAMIBIA The RSA govt will soon decide on SABC operations here--whether to transfer the service to the office of the Administer General in Windhoek. A private company is bidding for the broadcast franchise in the territory. It seems likely SABC will ultimately transfer its services to a local body when Namibia becomes independent at the end of this year (Richard Ginbey, RSA, SCDX 9/5)

NETHERLANDS July 1 is the date being reported by RN for changing over to feeds to Bonaire & Madagascar via satellite. To mark the occasion, Tom Meyer has said he will do all the July 2 Happy Station shows live from 7 am one day to 5 am the next (Diane S. Lévesque, IL, and Roger Reini, TX) I'd think it would be 9:30 am to 8:30 am (gh)

NIGERIA VON reported 8/5 that a Federal Radio Corp. is to be set up to restructure radio broadcasting, with four linguistic zones based on Enugu, Ibadan, Kaduna and Lagos. Present State radio stns belonging to NBC would be handed over to State Governments, with a power maximum of 10 kW to ensure the FRC would broadcast to the whole country while State broadcasters would be limited to their own areas. VON, the external service would become a separate department within the FRC (BBC MS 12/5)

SA'UDI ARABIA A company of consultants, per the SNA news agency, is at present engaged in preparing designs and final specs for the development of the "Call of Islam" radio in Jiddah. The project, expected to cost 195,500,000 Sa'udi Riyals, will be offered for tender in early June. The new broadcasting centre, containing 14 studios, should be heard all over the Muslim world (BBCMS 20/4)

TRANSKEI In 1979 a powerful commercial stn, probably called "Capital Radio" is to go on the air here; one of the most powerful in the world (Richard Ginbey, RSA, SCDX 16/5 via gh)

SWITZERLAND SBC European & Overseas Service will change name to Swiss Radio International in November (Richard E. Wood, NH)

VATICAN This summer, VR will inaugurate a SW antenna that is the largest of its kind in the world--a rotating antenna over 260 ft tall that rests on a circular monorail 280 feet in diameter. This set up cost the Vatican about \$2 million, and will require about \$1,000 a day to operate. The site is about 10 miles outside of Rome (Charles Savitsky, Our Sunday Visitor, 7/5, via Elisabeth Whitaker, TN)

DX PROGRAMS

ARGENTINA The Aconcagua DX Club program on R. Nacional Mendoza still has not been resumed (Mario Jorge Safier) MARPLA DX Club has a weekly DX program via ham station LU5CVA on 3625 kHz, "Nuevo tiempo en Radio Afición" GMT Sats at 0200-0400; on the first and third local Friday includes airing of R. Nederland's "Casi Todo en DX-ismo" course; second and fourth, DX news. QSL offered (Jorge da Silva, R. Nederland Espacio-DXista, 28/4 via gh)

AUSTRIA Re Austrian SW Panorama, now to NAM at 0300 Sun on 6155 and 9770--Listener comments are essential if this new slot to NAM is to be a regular one. In the summer I should have features on Thailand, Are DJs getting worse?, Fiji, and Pirate radio, each including studio tape. I try for a different approach to each station (Jonathan Marks, UK) R. Austria's Spanish DX program runs 15-20 mins each Wed at 1400-1430, 2000-2030, 2230-2300, 0100-0130 and 0300-0330 (Carlos Arturo de Castillo, Espacio DX-ista 12/5) Current freqs are: 1400, 6155 12015 15245. 2000 6155 9585 15135 15320. 2230 15195 11895. 0100 11870. 0300 9650.

CANARY ISLANDS Since mid-March, Centro Emisor del Atlántico has broadcast a new Spanish DX program for Latin America, "Canarias DX", Sats at 2200-2230 on 11880, produced by members of the Atlántico DX Club (Jorge da Silva, Espacio DX-ista 28/4 via gh)

DOMINICAN REPUBLIC If reading thru LN is too much of a chore, hear the highlights each month as Clarín-DX, GMT Sun 0000-0030 airs my selection of "NASWA DX News"; most likely to appear on the 2nd or 3rd week, as 21/5, while my separate "Review of International Broadcasting of the Air" is most likely to appear on the last or first week. If you would like Clarín-DX additionally scheduled when there is less QRM, write to Rudy Espinal, Apt. 205-2, Sto. Domingo, Dominican Republic (gh) The frequency, of course is 11700.

ECUADOR Our Spanish DX program is still on the air, GMT Tue at 0145 on 6050 11960 15115 (DX Party Line 29/4) No, it wasn't when I checked that same day, 30/4! (gh) Brandon Lovett and I are producing a MVDXC report for DXPL, 1st & 3rd Mondays (Terry Krueger, FL)

FINLAND As of 7/8, R. Finland jumbled its programming again, so that Finn-DX appears in the Thu 1930 2130 2300, Fri 0930 1300 1430 broadcasts alternate weeks (gh)

NETHERLANDS Spanish and English DX programs are now 5 minutes longer when aired by Madagascar & Bonaire, than when by Lopik, since the old Lopikians take longer to change frequencies (Espacio DX-ista 6/5; DX Juke Box)

SRI LANKA The Sun 1100 airing of "Radio Monitors International" on SLBC was off the air during April, but from 1/5 was resked to Mon 1115-1130 on 11835 15120 17850 (Goonawardena) The June 11-12 program deals with Broadcasting in the Cook Islands (Adrian Peterson, ADXN)

SWITZERLAND SBC will introduce a DX program in French in the next few months (George Wood, R. Sweden EDXC report, 18/5)

U S S R R. Moscow's DX Program has been rescheduled from Thu, to Sat 2335, Sun 0135, and presumably 0335 and equivalent times in the Pacific Coast Service; also, lengthened (gh)

PROGRAM NEWS

EGYPT R. Cairo NAm service undated sked: daily 0202 Egyptian Music; 0205 This Day in History; 0215 & 0315 News. Sun 0210 Mail Call, 0226 Point of View, 0235 Egyptian Song, 0240 Nature in Egypt, 0250 Current Events 0300 Storytime, 0310 Pop Music. Mon 0210 Glassary (sic), 0226 Point of View, 0235 Egyptian Song, 0240 Varied Talks, 0245 Listeners Mail. Wed 0210 Mail Call, 0226 Spotlights on the Middle East, 0235 Musical Life in Egypt, 0250 Tourism in Egypt, 0300 The World of Africa. Tue 0210 Mail Call, 0226 Point of View, 0235 Egyptian Music, 0240 Mike Visit, 0255 Cairo Favourites. Thu 0210 Weekly Gazette, 0226 Palestine This Week, 0235 Egyptian Song, 0240 Sports Corner, 0245 Listeners Mail. Fri 0210 Mail Call, 0226 Point of View, 0235 Egyptian Song, 0240 Egypt Today, 0250 Stamp Collectors Club, 0300 Our History. Sat 0210 Mail Call, 0226 Point of View, 0235 Egyptian Song, 0240 This Is Islam, 0245 Listeners Mail (via Pete Grenier, CA) On 9475 & 6230, of course. They ought to try 11 and 15 MHz now! (gh)

INDIA Some programs on AIR ES in EG-- Sports Folio, monthly magazine every 4th Sat at 1400, 1920, 2020, 2220, 2320. Quiz Time, also 4th Sats 1425, 1920, 2115, 2340. Faithfully Yours, mailbag, weekly Mons 1030, 1425, 1920, 2115 and 0045-GMT Tue. Horizon, a literary program, fortnightly 2nd & 4th Fris 1030, 1425, 1920, 2115, 2340 (Alok Das Gupta, Mar-Apr Indian DX Club International 'DX Digest', via REVIEW OF INTERNATIONAL BROADCASTING)

ISRAEL Some IEA Special Holiday Programmes, usually on the eve at 2000 & 2230, and the day at 1200-- June 10/11 Shavuot--Feast of Weeks; Aug 12/13 Tisha B'Av--Fast of the 9th of Av.

SWITZERLAND SBC on "Talkback" is asking whether listeners would like "The Name Game" re-introduced. They described a Swiss town, gave info on its history and culture, and interviewed local people. But not once was the name given. Prizes were given to listeners who wrote in identifying it correctly. An interesting program with the added spice of competition, deserving reviving (Mike Barraclough, England, May REVIEW OF INTERNATIONAL BROADCASTING)

THAILAND Among R. Thailand ES pgms in EG are "Speak A Word of Thai" daily 0125-0130, and "Mail Box" daily at 0440-0445 and 1115-1120, both on 9655 and 11905 (via Ron Howard, CA)

UKOGBANI The Environment figures in 3 BBC documentaries in June, Sats 1130, Suns 1830, Mons 2330--week of the 10th, The Life of Lake Erie; 17th, The Encroaching Desert in the Sahel; and 24th, Unspoilt Britain. Play of the Week presents Chekhov's "Uncle Vanya" on 10th 1830, 11th 0030 & 1130. Cartoon character Modesty Blaise becomes a radio serial starting 12th, Mons 1130, Tues 1615, Fris 2330. Women in a Man's World looks at Sand, Nightingale and Curie, Mons 0315, Tues 0745, Weds 1115, Fris 2145. Another three programs look back at Nelson: a durable hero, Mons 0100 & 0945, Tues 1330. It's a heavy sporting month, with extensive coverage of The Derby, Test Cricket, The World Cup, Wimbledon (gh)

U S A Some highlights of WYFR's programming this month: On Open Forum, at 0305 i.a. on 5985 (GMT dates): June 10, What is the meaning of Jesus' command, "Be ye wise as serpents"? Are we to study about Satan in order to be as wise as he is? 11th, Is it wrong for a woman to have leadership over a man in a church? 15th, What place does exorcism have today? July 7, What does 'falling backwards' mean? On Conference Echoes at 0200 GMT, July 2, Dinosaurs & Men; July 9, UFOs (extracted by gh from WYFR sked)

VIETNAM Since 4/5 the 1000-1030 EG to SEAs from VOV has included a daily feature "Facts & Opinions about Cambodia", informing listeners about every aspect of present-day Cambodia as well as comments and public opinion about problems concerning Vietnam-Cambodia relations (BBC MS 12/5)

UNIDENTIFIED 18000 Surprised to find Arabic-sounding music on this freq 7/5 at 0223 tune-in; never any anmts, tho some pauses, SIO 354; continued past 0500, but seemed to go off at 0512* Perhaps Riyadh, 3 x 6000? Propagation was possible, as Pakistan was in on 17830/21590 (gh) I've heard same station twice, both times on Saturdays, 4/3 and 6/5, from tune in at 1120, and still going at 0315 GMT May 7. It was not in Arabic but Turkish light, classical and centuries-old war tunes called "Davul Zurna

Havalari" played by a "zurna" flute and "davul" drums. I've written to the Bosphorus DX Club inquiring about it (Anthony Buhagiar, Ont) Very interesting! Maybe one of those private/pirate stations in Turkey (gh) MORE below--

21485 At 0325 19/5, instrumental music with pauses, no armts, much stronger signal than Australia on 21680; sidetracked by Uganda, and gone when I rechecked. Perhaps a VOA test, from Philippines? Or that Australian pirate once reported on 21490? (gh)

TIME JUMPS

Lebanon R. Lebanon announced that summer time would run from 30/4 to 30/9, i.e. GMT + 3 hours (BRCMS 4/5)

IN MY OPINION

Errol Urbelis, 563 Meadow Road, Kings Park NY 11754: "What ever happened to SWL card swapping? It seems that back in the late 50s & early 60s, SWL card swapping was the "in" thing to do. Quite a few DXers would have radio cards printed up, much in the same way as a ham QSL card and would exchange these cards with other SWLs. But I have noticed that DXers in general don't exchange these cards anymore (if they do, I don't know where). I would like the members of NASWA to have one of my souvenir HI2-SWL Santo Domingo SWL cards. I went there on a recent vacation and did some DXing down there. If anyone wants to swap cards I'll be glad to. If they don't have cards just drop me a line with an SASE and it's all yours. I myself have swapped with several thousand SWLs in over 50 countries and all the states. Best 73s and gud DXing to all of you and I hope to hear from you real soon."

gh: When I was a died-in-the-wool DXer, I tended to look down my nose at card-swapping as a poor substitute for collecting 'genuine' QSL cards from stations. Now that I realize that QSL cards are no less 'souvenirs' than are SWL cards, I suppose cardswapping should be considered a worthwhile endeavour--but only as a means of getting acquainted with fellow listeners, rather than just as another means of amassing a rather meaningless quantitative total of cardboard. I can't see what accomplishment there is in obtaining a card from someone in New York who visited the Dominican Republic, per se.

LAST MINUTE ITEMS

CANADA Unconfirmed report that RCI still on 9605 to NAM, not 11940; misplaced credit (gh)

GERMANY EAST RBI to WNAW now sked 0330-0415 11970 11840 11890. DX Meeting is fortnightly on Monday (GMT Tue). Also try the SEAS svc 1200-1245 & 1400-1445 on 21540 (RBI Journal, gh)

PIRATE - Voice of the Voyager (Cf LN-8) On 14/5 they seemd to have to pull the plug rather fast (possibly raid?). Never done before so heat must have been put on them. At one time said they were being heard well on 2nd harmonic=11700. Also some talk about moving up to 6220 for 'European service', or 5895, 5915, 5910 (John Trautschold & Dave Walcutt, GRAM)

UNIDENTIFIED - 18000 kHz (Cf LN-10 & above) Songs were announced by a YL and the pgm was called "Her Telden" = tunes from every instrument & every kind (Anthony Buhagiar, GRAM)

PUBLICATIONS

Frequency List of Vietnamese Stations heard during 1972-1978

Lists over 150 SW frequencies 3303-15100 kHz. This A-4, 6-page list is available to non-subscribers to Far Eastern DX Review for ¥300 stamps in Japan and SAE; overseas, 2 IRCs by airmail to anywhere. Shows which year(s) each frequency was in use, name of station, and which of the various political entities operated it. Order from Isao Ugusa, 1-3-10 Mikage-yamate, Higashinada, Kobe 658, Japan (FEDXR)

Far Eastern DX Review No. 20, 30/4 includes the new frequency plan for Philippine MW stations; complete weekly program schedule for Radio & TV Malaysia, and the usual roundup of FE DX news. Sample costs 5 IRCs by air from JADX, CPO Box 1766, Tokyo 100-91, Japan (gh)

Herbert H. Lehmann College Radio Club (and its magazine) are folding in June as both the two principal activists, Mike Maghakian and David Brodsky, are graduating (Maghakian via)

News Censorship in Israel is the subject of a (n uncompleted?) master's thesis at the University of Tennessee, by Howard Fox, now news director of KOSU, Stillwater OK 74074. Fox is a 1975 alumnus of Tel Aviv University (KOSU Feb 78 program guide)

L'Écho des Ondes is the monthly bulletin of Le Club des DXers Québécois, 2425 rue Saint-Antoine, Lachine, Québec, Canada H8S 1V9. Founded in Oct 1977. All French speaking DXers and others interest in French DXing are welcomed. \$7.50 in Canada; elsewhere in world via airmail, \$9.00. April issue was 16-page 7 x 8½ inch xeroxed booklet with logs & features. (via André Pîneau, PQ)

73 magazine carried these articles of interest to DX listeners--"Build a Vacation Special--Portable Antenna Systems", Aug. 77. The author claims that his portable antenna, based on a simple two-transistor amplifier fed by a 47" whip antenna, equals the performance of a 20-50' random wire. "SSB For the "Prog"--Tame the Croak", Dec. 77: a page and a quarter of dense type giving explicit directions on installing a clarifier control in an FRG-7, without recourse to Yaesu's overpriced modification kit (Richard M. Utter, NY)

Japan's Radio War on Australia 1941-45 L.D. Meo, Cambridge Univ. Press 1968. Propagandist M. Katō: "Japan was hopelessly beaten in psywar...because the UN based their efforts on truth, whereas Japan was unwilling to deal with the truth almost from the onset" Surprisingly, UN broadcasts to Japan were also largely a waste: lack of understanding of audience plus less than 500 home SW rx in Japan (Hugh Miller, WA) (Miller)

They Called Her Tokyo Rose A sympathetic account of Iva Toguri d'Aquino's long wait for pardon. From Pacific Citizen, Rm 307, 355 E First St., Los Angeles CA 90012; \$5.50 ppd.

Amateur Radio 73, Jan. 78. Ham rediscovers SWling, recommends SW radio instead of CB as gift for kids; understanding SSB; mods for BC-348; improving AX/SX-190 with new RF stage. (Miller)

The RSK-253 Receiver, by Christopher C. Smith, in CQ The Radio Amateur's Journal, Apr. 78. This rig is circa 1953, but manufacturer unknown--some Japanese parts. Serial number indicates over a thousand were built. Is battery-powered 6-tube AM/CW 7-12 MHz; article includes schematic, discusses modifications, circuitry (Rufus Jordan, PA)

Ham Radio frequently has tech articles of interest to SWLs, on receiver problems and modifications, for instance in the 10/75, 10/76, 3/77 and 6/77 issues (Phil Schnabel, IA)

THE PULSER

Australian Long Range Radar. We have unearthed this from the 5/77 International Defense Review: The Jindalee project (160 km NE of Alice Springs) was launched 4/74. With this over-the-horizon antenna array, Australia is now in a position to track aircraft as far away as Singapore. It is reported that signals have been received as far away as the UK. Jindalee is a major project to investigate the possibility of OTH detection of aircraft. Several million dollars has been spent on the experimental radar which is being used together with special receiver/computer equipment developed at the Weapons Research Establishment (WRE) in Salisbury, South Australia...

US DOD has loaned equipment and offered consulting assistance (SWNS)

Meanwhile, Jan IEEE Spectrum notes "for advance military applications, general periodic waves (usually rectangular pulses) broadcast (sic- SWNS) directly (no carrier) are becoming increasingly important. This is so because such nonsinusoidal transmissions offer several important advantages: lower atmospheric absorption, and better resolution for line of sight radar, wider bandwidths for highly classified 'spread spectrum' transmissions without operating at undesirably high freqs, more immunity to ionospheric fading on multi-path links; and the potential for freq sharing with conventional broadcasting (emphasis added -gh) ... Another application for general periodic waves concerns OTH radar...a radar ability to resolve distant objects is proportional to its absolute bandwidth...ordinary 15 MHz OTH radar has a difference between highest and lowest frequency of interest of only about 0.5 MHz, yielding a relative bandwidth of about 1.6%. But 15-MHz radar operating with general periodic waves can have a lowest freq of interest of 10 MHz, producing a 20% relative bandwidth." (SWNS)

The Eugene Effect. A powerful radio signal that may be affecting human health has been monitored in several Eugene locations and in the air 3000 ft above the city, the Eugene OR Register Guard reported Sunday. The source is unknown. Health officials said evidence indicates no cause for alarm, but the EPA had been requested to assist. Some researchers blame such signals for disorders ranging from cancer and cataracts to headaches and insomnia. Some call the signals 'electronic smog'. The signal is described by personnel at the University of Oregon as a 'radio frequency pulse signal' at 4.75 MHz occurring 1,100 times per second, measured at intensities as high as 500,000 Watts. UO industrial hygienist Marshall Van Ert was alerted to the problem by a man who complained that low-level noises & vibrations in his home were affecting his health. Later, Van Ert began to suspect the presence of the signal in his own residence, due to reddening of the skin, and it was detected there. Several source possibilities--an errant signal from a govt or milly installation; a mixing spur; or skywave from far away; or improperly shielded industrial machinery. (AP via the Oregonian 2/73, via Frank Aden, OR) Those mysterious signals are coming from a Navy air station in Alameda CA, the FCC said today. Theories ranged all the way to outer space. But the answer is nothing so exotic, said Richard Smith, Asst. Chief of the FCC's enforcement division in Washington, DC. Smith said that while the radio signal 'makes a funny sound' when heard on a regular radio, 'we see nothing else that needs to be pursued' (AP via Los Angeles Times 28/3 via SWNS) Explanation offered by Cdr. Bennett of Alameda NAS, Treasure Island, SF, "The eleven dot, one dash signal emanating from Dixon is a 7500 Watt xmsn supplying 'data' to navy aircraft from Moffet Field, and is not the signal reported as causing illness and high fever to listeners in the Eugene OR area, and reputed to be from a UFO or from outer space. This mystery signal was originally reported on 4750 kHz but the media confused the issue by assuming it to be the xmsn from Dixon on 4715". I believe this could be a 'homing' signal, not a 'data' signal as stated. I would very much like to verify the Commander's statement that the unID was originally heard on 4750 kHz (Larry Brookwell, CA, 30/3)

RFI Listeners Club of North America. To lobby for a daily English broadcast to NAM in our evenings from France, Mathew Brown has formed this club; plans to issue a monthly newsletter. For info send 26c stamps to 3310 Picardy Ct, Mequon WI 53092 (Qué Pasa, DXPL 13/4)

USER (LATE ARRIVAL)

SOVIET FOR. SVC. TO NO.
AMER. - F.E. SITES.
20 APR. 1978

GMT

2100 2200 2300 0000 0100 0200 0300 0400 0500 0600 0700 0700

KHZ. LOCATION

9635 KHABAROVSK

9710 PETROPAYLOVSK

11720 PETROPAYLOVSK

12030 PETROPAYLOVSK

12050 PETROPAYLOVSK

12060 Asia, Eur.? - NOT F.E.

15100 VLADIVOSTOK

15180 NIKOLAYEVSK

15245 PETROPAYLOVSK

15350 NIKOLAYEVSK

15405 NIKOLAYEVSK

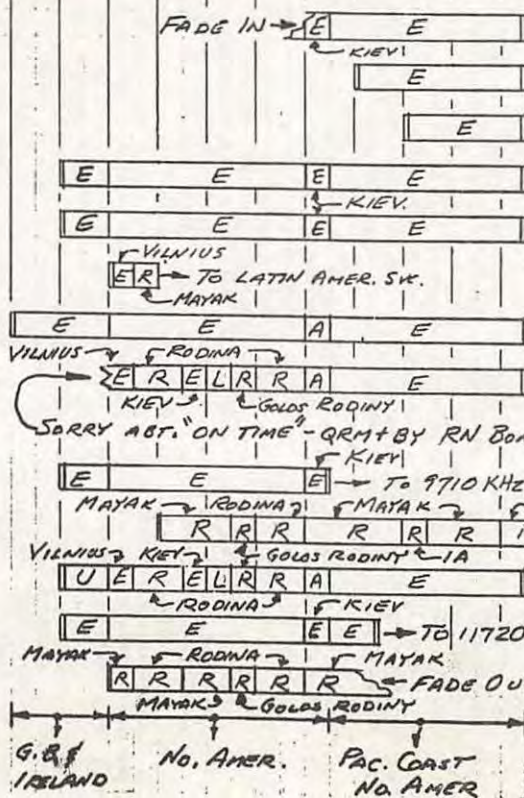
15425 PETROPAYLOVSK

17720 KHABAROVSK

LANG. CODE:

A ARMENIAN (YEREVAN)
E ENGLISH
L LITHUANIAN
R RUSSIAN
U UKRAINIAN (KIEV).

W. F. DAVIS
24442 LOS SERRANOS
LAGUNA NIGUEL
CALIF. 92677



THE NASWA AWARDS PROGRAM

The NASWA Awards Committee presently has forty-one individual awards that are available to the membership upon receipt of proof of qualification. As you will note from the following, qualifications for most are difficult. However, there are a number of awards that should be obtainable by the beginning DXer after some work. The Awards Committee wants to make NASWA's program a worthwhile one, and not simply some meaningless way to issue pieces of paper to hand on your walls. A NASWA certificate of accomplishment is something to be proud of, and cannot be easily earned.

Each certificate is individualized and are rather inexpensive, considering today's inflated economy, with each award being only 50 cents in coin or check, or four 13¢ stamps for U.S. members, and 3 IRCs elsewhere. (Stamps of denominations larger than 24¢ will be returned with the application to the applicant, for I cannot use them). While the awards program has been in existence for 4 years now, the prices haven't changed while supplies have increased in cost. However, the Awards Chairman is attempting to keep the cost down at the 50¢ level for as long as possible to make the awards financially "available" to the membership.

The certificates are suitable for framing and will make a nice addition to the listeners collection.

Applications for any of the awards are to be filed, with payment, direct with the awards chairman at the address listed below, and all applications must be complete for each award and clearly indicate the following:

1. Country name(see country list)
2. Station name
3. Date QSLed
4. Frequency confirmed
5. Type of QSL received(letter, card, etc)
6. Verie signer(if available)
7. For QRP awards, the power must be given

All inquiries and questions on individual awards should be directed to the awards chairman:

Dan Henderson
NASWA Awards Chairman
7921 Anfred Drive
Laurel, Maryland, 20810 U.S.A.

The awards chairman reserves the right to request additional information or copies of individual QSLs at any time for "proof of verification". Also, if an award application is rejected, the applicant will receive his application back with the reason given and the money refunded(minus postage costs for returning the application).

AWARD	REQUIREMENT
European Continental DXer	Verification of one station in at least 25 different European broadcast countries.
European Continental DXPert	Verification of one station in at least 35 different European broadcast countries.
African Continental DXer	Verification of one station in at least 40 different African broadcast countries.
African Continental DXPert	Verification of one station in at least 50 different African broadcast countries.
Asian Continental DXer	Verification of one station in at least 30 different Asian broadcast countries.
Asian Continental DXPert	Verification of one station in at least 50 different Asian broadcast countries.
North American Contiental DXer	Verification of one station in at least 15 different North American broadcast countries.
North American Continental DXPert	Verification of one station in at least 20 different North American broadcast countries.
South American Continental DXer	Verification of one station in at least 10 different South American broadcast countries.
South American Continental DXPert	Verification of one station in at least 13 different South American broadcast countries.
DXer de Pacifica	Verification of one station in at least 10 Oceania broadcast countries.
All Continent "QRP" DXer (for 50, 25, 10, 5, and 2 kw-- revision stickers 10 cents each)	For verification of one station from each radio continent, with the power from the lowest powered station verified in each continent totaled together for the lowest possible wattage combination, not exceeding the values indicated above.

All Voice of America DXer	For verification of 14 different VOA transmitter sites.
Maple Leaf DXer	For verification of 8 Canadian shortwave broadcasters of which RCI can be only one. The stations include CHU, CFRX, CKFX, CHNX, CKZU, CKZN, CFCX, and RCI, for a minimum.
Soviet Sphere DXer	For verification of one station in at least 10 Soviet Sphere broadcast countries in the Soviet Union. (Does not include stations in Poland, E. Germany, etc.)
Master Soviet Sphere DXer	For verification of one station in 15 Soviet Sphere broadcast countries.
Ecclesiastic DXer	For verification of 15 religious oriented broadcast stations--any station that is owned or operated by a religious organization. (SW only)
Senior Ecclesiastic DXer	For verification of 25 religious oriented shortwave broadcast stations.
ORTF DXer	For verification of at least 7 of the stations that have been controlled by the ORTF, one in each or seven broadcast countries. (Includes Fr. Guyana, Martinique, France, Djibouti, Re-Union, Comoros, Tahiti, New Caledonia.)
Emissora Nacional DXer	For verification of at least one station in each of 6 broadcast countries that were Portuguese territories on 1 January 1974. Includes Port. Guinea, Azores, Sao Tome, Angola, Mozambique, Timor, Cape Verde, and Portugal.
Senior Indonesian DXer	For verification of at least one Indonesian station in each or the 7 Indonesian broadcast countries.
Master Indonesian DXer	For verification of at least one Indonesian station in 13 or more provinces or special districts, including one from each broadcast country.
Senior Subcontinental DXer	For verification of at least one Indian station in 5 of the Indian states or districts.
Master Subcontinental DXer	For verification of at least one Indian station in 10 of the Indian states or districts.
Senior Nigerian DXer	For verification of at least one station in each of the 4 Nigerian Regions and the Federal District at Lagos.
Master Nigerian DXer	For verification of 9 or more Nigerian transmitter sites.
Senior Ecuadorian DXer	For verification of at least one station in 12 or more of the Ecuadorian provinces.
Senior Brazilian DXer	For verification of at least one station in each of 20 of the Brazilian states and Federal Territories.
Senior Venezuelan DXer	For verification of at least one station in each of 15 Venezuelan states.
Senior British Commonwealth DXer	For verification of at least one station in each of 30 countries that are or have belonged to the British Commonwealth.
Master British Commonwealth DXer	For verification of at least one station in each of 40 countries that are or have belonged to the British Commonwealth.
Papua New Guinea DXer	For verification of at least 10 stations in areas controlled by Papua New Guinea.
Master Papua New Guinea DXer	For verification of at least 15 stations in areas controlled by Papua New Guinea.
Tropical Band DXer	For verification of at least one station in each of 50 countries located between the Tropics of Cancer and Capricorn, operating on Shortwave below 6000 KHz.
Senior Tropical Band DXer	Same as Tropical Band DXer, except the number of countries is increased to 75.
Arab World DXer	For verification of at least one station in each of 15 countries that use Arabic as the major (first or second most common) language.
Arab World DXPert	Same as Arab World DXer, except for 24 countries as the requirement.

DX CENTURY AWARDS

World Wide DXer	For verification of at least one station in each of 50 different broadcast countries.
DX Centurian	For verification of at least one station in each of 100 different broadcast countries.
Senior DX Centurian	For verification of at least one station in each of 150 different broadcast countries.
Master DX Centurian	For verification of at least one station in each of 200 different broadcast countries.

Well, that describes all the awards. I should say that more awards are being considered, like a W. Germany award and a time station award. What would the membership think of an OPEC(Organisation of Petroleum Exporting Countries) award? That would surely be in keeping with the times! As most of you know, I am always open to new and different awards suggestions and I appreciate all of them and consider each and every one. I do hope you noticed in the North American DXPert award that the totals have been reduced to 20, in keeping with the current state of broadcasting in North America. However, it will be some time before the certificates are ready. What do you think of an Australian DXer award? Please let me know!

My policy on issuing awards is as follows: I attempt to expeditiously reply with each application---however, sometimes my work keeps me away for days and weeks at a time, so don't give up hope--the award will come. Also, PLEASE REMEMBER---IF YOU WANT YOUR AWARD, YOU MUST PUT YOUR NAME AND ADDRESS ON EACH PAGE OF THE AWARD APPLICATION. IF YOU DON'T, THERE IS AN INCREASED POSSIBILITY THAT YOU WILL NOT GET YOUR AWARD. While my records keeping is good(each person who submits an application is assigned a separate folder), sometimes the applications get mixed up and if your name is not on each sheet, I cannot always guarantee that you will receive your award. As many of you know, I generally am pretty good at getting your award back to you with all the proper information. If the award is not correct, please send it back and I will replace it at no charge to you. Anyway, I do hope that the membership will continue to support the awards program---just remember that the program is PRIMARILY FOR DXERS, and the awards will not be easy to obtain. But that is in keeping with the intent to provide an awards program that will present attractive awards that will be treasured by the DXer.

.....
HELPING HAND: For sale. 100 kHz Crystal Calibrator with LED Piolet Light. Connects to ANT post of any shortwave receiver. Requires three AA batteries. \$15.00 postpaid. Larry Brookwell, 1826 Cypress, San Diego, CA 92154. Ten percent to the HAP program. P.S. I'm looking for a Drake FS-4 Synthesizer for my SPR-4.

HELPING HAND: Any R392 owners wishing to participate in a users group to exchange technical information, etc. please contact Ian H. Grant, 49 Silverstone Drive #905, Rexdale, Ontario, Canada M9V 3G2.

HELPING HAND: For sale. Lafayette HA-600 A less than 1 year old in very good condition. \$85.00 + shipping. David Greenes, 38 Grey Lane, Lynnfield, MA 01940 or call (not collect) 617-334-6306.

HELPING HAND: I'm having a problem receiving mail from Australia and I'm interested in knowing whether or not anyone else is having the same problem. If you are, please write to Myron L. Gerchen, 558 North 5th Street, Watseka, IL 60970

HELPING HAND: For sale. Realistic DX-160 in good condition, 1½ years old, used approximately 6- to 70 hours. Needs a little alignment, but otherwise worked perfectly. \$120. For info write Lynn Wineland, 1040 North Waggoner Road, Blacklick, OH 43004 or call (614) 866-8937 (Not collect).

NOTICE

NOTICE

NOTICE

Beverage Antenna DXpedition/Picnic/Campout! All Tropical Band and Broadcast Band DXers and their friends are invited to participate in monthly DXpeditions. Next date is June 10, Saturday afternoon through Sunday morning. Site is near 29 Palms, California. For details, phone Don Erickson at 714-687-5910 or, in Orange and Los Angeles counties, 714-738-3709 or write to 6059 Essex Street, Riverside, CA 92504

QSL REPORT



Sam Barto, Naswa QSL Editor
245 Cherry Ave, J-11,
Watertown, Conn. USA 06795

This issue of the QSL Column
is dedicated to NASWA's female
members whos contributions help
to make FRENEX one of the best.

- ADMIRALTY ISLANDS:** Radio Manus 3905 NBC f/d cd. from Boroko in 17 ds. (Tuchscherer). cd., map and tourist data in 1 mo. for 2 IRC's, v/s Jack Arifee. (Field). same in 15 ds. (Fedor). f/d yellow map cd. in 21 ds. for ms. (Kusalik)... Check Papua New Guinea, New Ireland and New Britain for other fine QSL's received by Kusalik.
- ALBANIA:** Radio Tirana 7300 cd. in 110 ds. for 3 IRC's. This was my 4th report to this station. (George). 9500 "Revolutionaire" cd. in 75 ds. (Wirsz). Radio Peking relay 11945 cd. and schedule in 15 ds. w/ two wallet calanders. (Hillman).
- ALGERIA:** Radio of the Democratic Peoples Rep. of Algeria 9685, 9705 f/d blue and white emblem cd. in 2 mo. for an EG report. Schedule also received. (Barto).
- ANTIGUA:** BBC 6175 "London Bridge" cd. in 3 wks. Info on the WRC also received. (Kapinos).
- ARGENTINA:** RAE 9690 f/d cd. in only 1 year for an EG rpt. (Wendt).
- ASIATIC RUSSIA:** Radio Moscow via Nikolayev-na-Amure on 12015 cd. in 51 ds. w/ sked. (Ponder)
- AUSTRALIA:** VLW6 6140 Perth, f/d cd. in 1 mo. (Klein). VLM4 4920 Bald Hills, f/d cd. in 1 mo. (Alm). VNG 12000 Lyndhurst, f/d folder cd. in 2 mo. w/ sked. (Klein). 4500 same cd. in 6 wks. v/s P. Page. (Overcamp). Radio Australia via Shepparton on 9580 w/ "Common Fringed Lily" cd. in 3 mo. for 1 IRC. (Fraser). 15320 w/ "White Flowering Mallee Gum" cd. in 2½ mo. (Grenier). same freq. w/ "Parakeet" cd. in 2 mo. w/ pennant. (Leithner). 9580 w/ same cd. in 2½ mo. (Klein). via Lyndhurst on 15240 w/ "Lily" cd. in 3 mo. (Grenier). 15160 and on 15240 w/ "Mallee Gum" cd. and the "Blue Wren" cd. respectively in 3 wks. w/ sked for 1 IRC. (Margritz).
- AUSTRIA:** ORF 17710 f/d "Glass Towers" cd. in 1 mo. (Barto). 15320 f/d "Silver ORF" cd. in 1 mo. (Barto). 15335 f/d "Moosbrunn" cd. in 6 wks. for 1 IRC. & report forms. (Alm). 17770 f/d "Contemporary Art" cd. in 45 ds. for 1 IRC. (Dawson). 9770 w/ same cd. in 5 wks. for 1 IRC. (Reynolds). 9770 f/d "Moosbrunn Transmitter Site" cd. in 34 ds. (Pyne).
- AZERBAIDJAN:** Radio Moscow via Baku on 21490. f/d cd. in 50 ds. (Tuchscherer).
- BELGIUM:** BRT 6080 f/d cd., pennant, sked, sticker and tourist info. in 48 ds. for 1 IRC. (Wirsz). f/d "Emblem" cd. in 3 mo. w/ pennant for 2 IRC's. (Doyle).
- BENIN:** ORTB 4870 "Five Scenes" cd. in 6½ wks. for a French report and 2 IRC's. (Lazarus).
- BOLIVIA:** Radio Paititi 4425 personal ltr. and station info. in 1 mo. on my second try. v/s Dorian Arias Montero, Director. Sent SASE but not used. (Field)... Check out Marlins rpts!!
- BONAIRE:** Radio Nederlands 9590 f/d cd. in 99 ds. (Wastradowski). same in 64 ds. for 1 IRC. (Padgett). 21640 cd. & sticker in 1 mo. (Leithner).
- BRASIL:** Radio Ribeirao Preto 3205 4 QSL postal cds. in 3 wks. on my 6th try. (Field). Radio Nacional Brasilia 11780 f/d cd. in 9 wks. for a Gilfer rpt. form and 1 IRC. (Wallace). Radio Educadora Rural de Coari 2490 cd. and letter in EG(1) in 2 mo. v/s Fr. Martin Laumann, Chief Technician. SASE was not used. (Field)... Very nice... Sam.



Some good ones here, gdnng.

Radio Drago
do Mar 4925
f/d ltr. in
23 ds. for an
EG rpt. v/s
Raimundo de
Souza, Asst.
Administrat-
ivo. (Howard).
Radio Rio Mar
9695 "Bldg."
cd. in 72 ds.
for an EG rpt
and ms. (Hoff-
man).

SUPPORT

NASWA

"THE CALL OF THE ORIENT"

Non-commercial Missionary Station
MANILA, PHILIPPINES

D Z F 3

15.385 MC.
19 Meters



FAR EAST BROADCASTING CO., INC.

BRASIL: Radio Continental 6195 personal ltr

In EG was received in 4 mo. after my 17th try...Yea, you read it correctly, for an SASE which was not used. v/s Wagner Luiz, Director. He even asked for more reports!!! (Field)...I'm still waiting for this one...Sam. **Radio Gaucha** 6135 "50 Anos de Comunicacao" cd. in 3 mo. for a PT rpt. and 1 IRC. (Petrvick).

Very nice.

Radio Record personal ltr. from Paulo Machado de Carvalho Neto in 3 wks. w/ decal, stickers and station sked. (Barto). **Radio Emissora Educacao Rural** 2410 f/d postcard w/ photo of young native girl in 4 mo. on my 9th try. SASE sent and not used. v/s Hilda A. Souza. (Field)...Have you noticed how many SASE's were sent and not used? Could mean something...Sam.

BULGARIA: Radio Sofia 6070 "Nevsky Cathedral" cd. in 157 ds. (Taylor). same in 56 ds. (Byron). same cd. for 7115 w/ sked. in 110 ds. (Wirsz). same in 78 ds. (Wastradowski). 6070 f/d "Kukery" cd. in 63 ds. (Fraser). cd. for 30930(?) in 3 mo. for 1 IRC. (Reynolds).

CAMEROON: Radio Cameroon 4850 Yaounde f/d yellow and green map cd. in 78 ds. for an EG rpt. and 1 IRC via registered mail. (Brooker).

CANADA: CFCX 6005 "Studio" cd. in 30 ds. (Petrvick). same in 45 ds. (Wirsz). **CFRX 6070 f/d "Boat"** cd. in 14 ds. for 1 IRC. (Doyle). **CHNX 6130** Halifax, N.S., cd. in 2 wks. v/s Jody Carruthers. (Kapos). **CHU 7335 f/d** cd. in 12 ds. (Wendt). 3330 in 17 ds. (Golk). (Golk).

CHAD: RNT 4904.5 f/d photo cd. in 14 ds. for a FR/EG rpt. and 2 IRC's. (Burns). same in 16 ds. for an EG report and 1 IRC. (Hamilton -SC).

CHINA, PEOPLES REPUBLIC: Radio Peking, received 8 calendar cds. (Padgett)...Its hard to believe that none of our readers received a QSL from Peking during the past month!...Sam.

COLOMBIA: Radio Colosal 4945 f/d ltr. in 25 ds. for an EG/SP rpt. and ms. v/s Luis Fernando Navarro. Pennant also received. (Weber). **Emisora Meridiano 70** 4925 personal ltr. in 4 wks. in 11 mo. for a SP rpt. and ms. v/s Manuel Buenaventura D., Director General. Also rcvd. a red, white and orange pennant. (Lazarus). **Brisas del Citara** 4895 2 postcards in 5 wks. on my 8th try for a SP rpt. and a SASE which was not used. (Field). **Radio Bucaramanga** 4845 blue and white "Logo" cd. in 14 ds. for an EG/SP rpt. and ms. Also rcvd. a Bumble Bee sticker. (Burns). same in 14 ds. for an EG rpt. (Bares). **Radio Sutatenza** 5095 cd. in 21 ds. for a SP rpt. v/s Jardany Suarez Ramirez, Gerente. (Tuchscherer). same in 245 ds. for a SP rpt. (Ponder). same in 41 ds. for an EG/SP rpt. (Burns).

COMORI REPUBLIC: Radio Comores 7260 cd. in 50 ds. for a FR rpt. and an SASE which was used.

Rate

v/s Saide Hassane Jaffar, for Chaine International de Radio Comores. Station now has a new QSL cd. (Kusalik).

COSTA RICA: Radio Reloj 6006 f/d "Aqui Costa Rica" cd. in 16 ds. v/s Roberto E. Aragon. (Sapoznikow).

CUBA: Radio Havana Cuba 9685 f/d black & red "Emblem" cd. in 3 1/2 mo. (Doyle). same in 115 ds. for 1 IRC. (Burns). same in 105 ds. for a SP rpt. and 1 IRC. Also rcvd. poster. (Padgett).

CYPRUS: Cyprus Broadcasting Corp. 7230 f/d cd. in 2 mo. for an EG rpt. and 1 IRC. (Pyatt). same in 3 mo. (Matthews). **BBC 6180** cd. in 3 wks. (Bares).

CZECHOSLOVAKIA: Radio Prague 7345 f/d cd. on the "Trade Fair Grounds" in 49 ds. for an EG report. (Fraser).

DODECANESE ISLANDS (RHODES): VOA 5965 f/d "Seasons" cd. in 6 ds. (Bares). 7110 in 14 ds. (Weber).

DOMINICAN REP: Radio Clarin 11700 f/d very large cd. in 10 1/2 mo. for an EG rpt. It is a card worth getting!!! (Fedor).

Radio Mil 4930 form ltr. in 5 wks. for a SP rpt. and 1 IRC. v/s Engracia Gonzalez, Dpto. de Rel. International.

(Klein). same in 17 ds. for EG rpt. and 1 IRC. (Hamilton-SC). same for a SP rpt. (Petrvick). for 4940 in 18 ds. for a SP/EG rpt. (Weber). same for an EG rpt. in 6 wks. and ms. (Overcamp).

Interesting

Radio Norte 4788 friendly SP ltr. and a very beautiful pennant in 18 ds. v/s Jose Luis Toribio, Radio Commissioner. (Tuchscherer). on 4770 w/ a ltr. in

RADIO-COMORES**TRANSMITTING FROM MORONI**

(now in **COMOROS ISLANDS**
the possession
of Ed Kusalik) **INDIEN OCEAN**

(via the collection of Ed Kusalik)

(Barto).

photo of young native girl in 4 mo.

Have you noticed how many SASE's were sent and not used? Could mean something...Sam.

same in 56 ds. (Byron). same in 78 ds. (Wastradowski). 6070 f/d "Kukery" cd. in 63 ds. (Fraser). cd. for 30930(?) in 3 mo. for 1 IRC. (Reynolds).

in 78 ds. for an EG rpt. and 1 IRC via registered mail. (Brooker).

same in 45 ds. (Wirsz). CFX 6070 f/d "Boat" cd. in 14 ds. for 1 IRC. (Doyle). CHNX 6130 Halifax, N.S., cd. in 2 wks. v/s Jody Carruthers. (Kapos). CHU 7335 f/d cd. in 12 ds. (Wendt). 3330 in 17 ds. (Golk). (Golk).

in 16 ds. for an EG report and 1 IRC. (Hamilton -SC).

Its hard to believe that none of our readers received a QSL from Peking during the past month!...Sam.

same in 245 ds. for a SP rpt. (Ponder). same in 41 ds. for an EG/SP rpt. (Burns).

which was used.

for Chaine International de Radio Comores. Station now has a new QSL cd. (Kusalik).

in 16 ds. v/s Roberto E. Aragon. (Sapoznikow).

same in 105 ds. for a SP rpt. and 1 IRC. Also rcvd. poster. (Padgett).

same in 3 mo. (Matthews). BBC 6180 cd. in 3 wks. (Bares).

in 49 ds. for an EG report. (Fraser).

in 14 ds. (Weber).

It is a card worth getting!!! (Fedor).

for a SP rpt. and 1 IRC. v/s Engracia Gonzalez, Dpto. de Rel. International.

for a SP/EG rpt. (Weber). same for an EG rpt. in 6 wks. and ms. (Overcamp).

in

(from the Klein collection)



febc
RADIO INTERNATIONAL

- 1½ mo. for a SP rpt. and 1 IRC. Station sent along 3 postcards and a 16" pennant via special delivery. (Klein)...Thanks for the telephone call on this one!
- ECUADOR:** Radio Pastaza 3315 ltr. in 5 wks. for a SP rpt. and ms. v/s Wilfrido Rodriguez Paredes. (Sparks). Radio Paz y Bien 4820 cd. in 4 mo. for a SP rpt. and ms. v/s Enrique Pesnatez G., (Sparks). same in 4½ mo. on my 6th try for a SP rpt. and a SASE which was not used. The stations slogan as it appears on the envelope is La Voz Catolica de Ambato. Very interesting as last year there were many reports of a Radio Catolica on this frequency. (Field). Radio Tropical 3340 personal ltr. in 3 wks. on my 5th try for a SP rpt. and a SASE which was not used. v/s Augusto Cedeno Estupinan, Director. (Field)...Nice reports throughout the bulletin...Marlin...Sam. Radio Quito 4920 blue and white folder cd. in 25 ds. for a SP rpt. and 1 IRC. v/s Jose Almeida. (Meehan). HCJB 11915 "Guayaquil Coastline" cd. in 21 ds. for \$.40 in US stamps. (Ponder). 9560 f/d "Generators" cd. in 66 ds. for ms. (Fraser)...Thanks go to Jon Golkin for the info. on HD210A...Sam.
- EGYPT:** Radio Cairo 6230 f/d "Palms and Pyramids" cd. in 121 ds. (Golkin). cd. in 8 mo. w/ sked (Wallace). 9805 f/d "Nile" river cd. in 11 mo. for 2 IRC's. (Byron). 6230 "Street Scene" cd. in 6 wks. (Barto)...Yes, Cairo has an erratic QSL policy...Sam.
- ENGLAND:** VOA Wofferton 7200 f/d cd. in 7 ds. v/s Gayle Kucera. (Dalum).
- EUROPEAN RUSSIA:** Radio Moscow via Moscow on 9745 cd. in 61 ds. (Wirsz). via Moscow on 7130 and on 7200 w/ "Flowers" and "Bell Tower" cds. respectively in 51 ds. (Fraser). via Moscow on 7440 in 60 ds. (Weber). via Tula on 7195 in 1 mo. (Barto). same in 7 wks. (Kapinos). via Armavir on 7205 in @ 1 mo. (Barto). no site for 11755 in 40 ds. (Smith-NY). Radio Station Peace and Progress 11730 in 38 ds. (George).
- FEDERAL REP. OF GERMANY:** VOA Munich 7295 f/d "Scenes" cd. in 11 ds. (Grenier). Radio Liberty 7180 cd. and sked in 1 mo. (Bares). Deutschlandfunk received a very nice black, red and yellow pennant and a station sticker along w/ program schedule. (Margritz).
- FINLAND:** Radio Finland 15265 f/d "Spring in Finland" cd. in 11 mo. for 1 IRC. pennant and sticker also rcvd. (Byron). 11735 same cd. in 32 ds. (Wastradowski). 15105 same cd. in 3 wks. (Barto). in 28 ds. w/ "Winter in Finland" cd. (Neff).
- FRANCE:** RFI 11825 f/d cd. in 95 ds. (Wallace). Radio France Cooperation Radio-phonique 21580 f/d cd. in 6 wks. (Barto).
- GEORGIAN SSR:** Radio Moscow via Tbilisi on 17805 f/d cd. in 48 ds. (Weber).
- GERMAN DEMOCRATIC REP:** RFI 9730 f/d "Rotes Rathaus" cd. w/ personal ltr. from Rudi Friedel and a station decal in 47 ds. (Sapoznikow).
- GHANA:** GBC-1 4915 Accra f/d cd. in only 341 ds. w/ schedule. (Fedor).
- GREECE:** Voice of Greece 11730 f/d white cd. in 39 ds. for 2 IRC's. v/s E. Stylianeas. (Grenier). same in 19 ds. (Eastman). same in 28 ds. for ms. (Neff).
- GRENADA:** Radio Grenada 15105 f/d cd. in 60 ds. w/ sked. for 1 IRC and ms. (Neff). same in 80 ds. for 1 IRC. (Johnson)...Glad to see you finally got this one Irv...Sam.
- GUAM:** TWR KTWR 17855 f/d "Map" cd. in 95 ds. for a US \$.13 stamp. v/s Linda Horton (Wastradowski). 15175 f/d cd. in 1 mo. v/s D. Fisher. (Margritz).
- GUATEMALA:** Radio Cultural 3300 f/d "Quetzal" cd. in 3 wks. v/s Wayne Berger. (Sapoznikow). same in 43 ds. for an EG rpt (Wirsz). in 41 ds. for 1 IRC. (Dawson). La Voz de Nahuala 3360 cd. and pennant in 53 ds. (Tuchschere). same in 59 ds. for a SP rpt. and 1 IRC (Hoffman).



(from the Hywarren vaults)

SEARV

South East Asia Radio Voice

"Searv"-ing Asia with the Gospel of Christ
 Project of the National Council of Churches in the Philippines
 and the World Association for Christian Broadcasting
 Box 4148, Manila, Philippines

GUATEMALA: Radio Mam 4825 ltr. in 61 ds. for a SP rpt. and 1 IRC. v/s Herminio Perez L., (Hoffman). Radio Maramundo 6160 picture post card in 2 mo. for a SP rpt. and ms. v/s Varlos Ruiz Guevara. (Sparks)..Very nice.

HAWAII: WVVH 15000 f/d "Aloha" cd. in 11 ds. (Doyle). T0000 in 28 ds. v/s C. L. Trembath, (Burns). same in 48 ds. (Torre).

HONDURAS: La Voz Evangelica 4820 f/d "Map-Logo" cd. in 337 ds. v/s Ines Alvarado A., (Brouillette). cd. in 274 ds. (Brooker). in 87 ds. for 1 IRC. (Padgett).

HUNGARY: Radio Budapest 6000 f/d cd. in 2 mo. (Klein). 6110 same yellow bridge cd. in 2 mo. for 1 IRC. (Doyle). 11910 cd. in 1 mo. for 1 IRC. (Reynolds). 6080 same cd. in 36 ds. for 1 IRC. (Dawson). 9585 f/d cd. in 1 mo. w/ pennant (Wendt).

ICELAND: Gufunes Radio 12175 f/d "Scenes" cd. in 244 ds. for 1 IRC. (Wirsz).

INDIA: AIR 9525 f/d "Taj Mahal" cd. in 315 ds. (Brooker). same in 13 mo. from the Aligarh site. (Overcamp). 15080 via Bombay in 6 wks. on my 3rd try. (Field).

INDONESIA: RRI Tanjung Pinang 3225 EG ltr. was rcvd. in 27 ds. for an IN rpt. and m v/s Masdullah Eddy, Technical Manager. (Sparks).

IRAQ: Radio Baghdad 11905 f/d "Map" cd. in 125 ds. w/ a paper emblem. (Weber). in 3 mo. (Klein). in 42 ds. (Wirsz). same in 11 wks. (Howard). in 80 ds. (Wastradowski). 11705 in 60 ds. for 1 IRC. w/ large poster and local stamps. (Byron). 9745 cd. in 94 ds. w/ wrong freq. stated as 11905. (Golkin).... Sounds like Cairo's old tricks where all reports used to come back with 9805 or 9475 on the QSL regardless of the frequency that was reported... Sam. 9745 same situation as above in 124 ds. for 1 IRC. (Brown).

ISRAEL: IBA 7412 f/d cd. in 2 mo. (Wendt). 5900 and 9815 w/ f/d "30th Year of Independence" cds. in 45 ds. (Meehan). 9815 f/d cd. in 68 ds. for an EG rpt. (Fraser).

JAPAN: FEN 3910 cd. in 17 ds. (Fedor). Radio Japan 15270 f/d "Tachibina Dolls" cd. in 19 ds. (Pyne). 15270 f/d "Noh Mask of Woman" cd. in 14 ds. (Brouillette). same in 20 ds. (Meehan). in 32 ds. (Fraser). 17725 w/ same cd. in 10 ds. (Wastradowski). 17880 w/ same cd. in 12 ds. w/ schedule. (Eastman).

KALIMANTAN: RRI Samarinda 3295 ltr. and prepared cd. in 3 wks. after a follow-up for an IN rpt. and ms. v/s H. A. Helmy Toha B. A., (Sparks).

KENYA: Voice of Kenya 4915 Nairobi f/d ltr. in 30 wks. for an EG rpt. and 1 IRC. v/s Rashid Bakuli, for the Chief Engineer. (Cannon).

KOREA, DEMOCRATIC PEOPLES REPUBLIC: Radio Pyongyang 9977 "Dancers" cd. in 5 mo. w/ ltr., pin, pennant and a Korean folk record. (Matthews). 9977 f/d "Theatrical Scene" cd. in 136 ds. w/ pennant, booklets, 2 Japanese IRC's, pin, letter, calendar, 7 postcards, etc. (Brouillette)... You hit the jackpot!... Sam.

KOREA, REPUBLIC OF: Radio Korea 9525 f/d "Flag" cd. in 20 ds. (Klein). same in 21 ds. for 1 IRC. (Dunn). 11860 f/d "Stamp" cd. in 115 ds. (Gionet). same in 3 wks w/ pennant. (Matthews). 9720 cd. and sked. in 19 ds. same in 20 ds. (Doyle).

LAOS: Lao National Radio 6130 ltr. in 7 wks. for an EG rpt. v/s Thongphet Luangphengsouk, Deputy Director. (Howard)... Very Nice.

LIBERIA: ELWA 11835 f/d "Drummer" cd. in 257 ds. (Wirsz). 4770 w/ same cd. in 32 wks. for 1 IRC. (Cannon). 11940 w/ same cd. in 265 ds. for 1 IRC. (Byron).

VOA Monrovia 17795 in 8 ds. (Davidson)

(from the Leslie Byron collection)

**Radio
France
Internationale**



Christ to the World by Radio

SAMUEL BARTO

CONFIRMING YOUR REPORT ON D 2 B 2

3.345 MHZ 89.38 METERS

DATE November 11, 70 TIME 21 10 -21 23

VERIFICATION TECHNIQUES

A new printing has been received and copies are now available. I'll catch up on the back orders now....Sam.

"THE CALL OF THE ORIENT"

Non-commercial Missionary Station
MANILA, PHILIPPINES



DZHS

11.855 M.C.

25 Meters

FAR EAST BROADCASTING CO., INC.

- LITHUANIA:** Radio Vilnius 7360 cd. in 3 mo. (Klein). 6100 cd. in 15 wks. (Leithner).
LUXEMBOURG: Radio Tele Luxembourg 15350 f/d "Antenna" cd. in 2 mo. (Barto). 6090 w/ same cd. in 2 mo. (Klein).
MALAGASY REPUBLIC: *Radio Madagasikara* 3288 after 6 letters to station and 3 letters to the Malagasy Embassy in D.C., I finally received a letter from the Embassy stating that the station had no international service and that what I received was due to wave leaps in the atmosphere. (Hoogerheide)...That is a nice one to be proud of John...Sam.
Radio Nederland 11730 f/d "Antenna" cd. in 16 ds. for 1 IRC.VIC # 65 (Kapinos). same in 31 ds. (Eastman). 11770 f/d "Producers" cd. in 1 mo. (Gallucci).
MALAYSIA: Radio Malaysia 6025 f/d cd. in 30 ds. for 1 IRC. (Wallace).
MALI: Radiodiffusion Nationale du Mali 5995 f/d "Map" cd. in 37 ds. for a FR rpt. and 2 IRC's. (Dalum). 7110 w/ same cd. in 116 ds. for a FR rpt. and 1 IRC. (Brooker).

- MAURITANIA:** Radio Mauritanica 4845 "Map and Tower" cd. in 53 ds. (Ponder).
MEXICO: XEQM 6105 Tus Panteras ltr. in 27 ds. for a SP rpt. and ms. v/s Mario E. Gonzales Peraza, Gerente Administrativo. Also rcvd. a membership card and a folder for all the stations in the network. (Howard)...Thanks for the folder...Sam.

- MONACO:** TWR 7105 f/d "Map" cd. in 66 ds. for 1 IRC. w/ pennant and sked. (Byron). same in 112 ds. w/ schedule and religious data. (Wirsz). 7125 same blue and white f/d cd. in 49 ds.
MOROCCO: RTVM 15360, 15361, 11734 and 15330 for different reports in 2 mo. (Dalum). for an EG report. v/s J. Tanane. (Barto).
NEW BRITAIN: Radio East New Britain 3385 Rabaul f/d cd. in 7 wks. and a personal ltr. along w/ a Gilfer rpt. form. Rcvd decal and 2 cds. (Alm). *Radio West New Britain* 2340 Kimbe, f/d cd. in 21 ds. for 3 IRC's. v/s Jack Arifee. Station sent a pennant, sked and tourist information. (Kusalik). same f/d cd. in 1 mo. (Alm)....Very nice QSL's...Sam.

- NEW CALEDONIA:** FR3 7170 f/d orange "Logo" cd. in 10 mo. for a FR report and 1 IRC. (Pyatt).
NEWFOUNDLAND: CKZN 6160 f/d cd., letter and tourist info. in 2 wks. for ms. v/s F. H. Holm, Regional Engineer. (Sparks).



MASCOM NETWORK

TEL. 59-29-61
59-47-69
50-35-89

Don't forget to let me know if you are planning to attend the New England Area DXers Outing on September 10th.

- NEW CALEDONIA:** FR3 7170 f/d orange "Logo" cd. in 10 mo. for a FR report and 1 IRC. (Pyatt).
NEWFOUNDLAND: CKZN 6160 f/d cd., letter and tourist info. in 2 wks. for ms. v/s F. H. Holm, Regional Engineer. (Sparks).

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NEWFOUNDLAND: CKZN 6160 f/d cd., letter and tourist info. in 2 wks. for ms. v/s F. H. Holm, Regional Engineer. (Sparks).



Box 1, Valenzuela Metro Manila, Philippines

QSL FIRST REPORT FROM NORTH AMERICA OF OUR VERNACULAR PROGRAMS. FIRST FROM N.A. ON 11800.

ADVENTIST WORLD RADIO
IN ASIA

Box 15 Poona 411001 India

Frequency 11800 KHZ.
Power 100kW.....
Location S.H.C. GHATA.
Date 7-17-77.....
Time 1615 G.M.T.....

852
SPECIAL QSL
AWR WEEK
TWR-ASIA

Dear AWR Listener,
Thank you for your reception report which has been checked against our programme logs and is hereby verified as correct.

(from the A. T. Thornton collection)

John Peterson
Director

NEW IRELAND: Radio New Ireland 2428 Kavieng f/d cd. in 21 ds. for 3 IRC's. (Kusalik). same cd. in 16 ds. after a follow-up from Boroko. (Sparks). same in 1 mo. for \$1 Canadian (Alm).

NEW ZEALAND: Radio New Zealand 11780 f/d cd. and pennant along w/ sked. in 3 wks. for 2 IRC's. (Bares).

NIGERIA: NBC Jos 5965 f/d ltr. in 27 ds. for 1 IRC. Booklet was also received. (Burns). same in 35 ds. (Fedor). NBC Sogunle 4990 f/d ltr. in 2 mo. v/s A. Ezinwa. (Klein). NBC Ilorin 7145 form ltr. in 8 mo. for 1 IRC which was returned. v/s V. A. Kalejaiye, Senior Engineer. (Sparks). NBC Kaduna 3396 f/d ltr. in 4 1/2 mo. (Fedor). Voice of Nigeria via Ikorodu on 11770 f/d "Flag" cd. in 6 wks. (Gallucci). 7275 w/ f/d cd. in 130 ds. w/ sked. (Weber). same in 108 ds. (Golkin). in 46 ds. (Wirsz). same in 5 mo. (Sapoznikow).

NORWAY: Radio Norway LLG-2 9605 f/d "Geiranger" cd. in 1 1/2 mo. w/ sked. (Barto). LLJ-4 17840 f/d "Frogneseteren" cd. in 1 1/2 mo. (Barto)... Station also sent along a small flag pennant. Now have a 1/2 dozen of these. RN seems to be changing its call letters... Sam. LK 11850 f/d "Winter Scene" cd. in 2 1/2 mo. w/ schedule. (Klein).

PAKISTAN: Radio Pakistan 15325 "Monument" cd. and form ltr. in 5 wks. (Howard). 11640 "Main Gate" cd. in 8 mo. for 2 IRC's. VIC #1251 (Wiles). "Khattak Dancers" cd. in 8 1/2 mo. (Kusalik) same cd. in 240 ds. for 1 IRC. (Hoffman).

PAPUA NEW GUINEA: NBC Port Moresby 4890 f/d "Map" cd. in 29 ds. (Pyne). same in 3 1/2 mo. w/ station sticker. (Klein). Sked., tourist info, pennant and a silver sticker arrived in 2 mo. Station also has a white sticker. (Barto). Radio Southern Highlands 3275 Mendi f/d cd. in 21 ds. for 3 IRC's. Rcvd. pennant, bumper sticker and sked. (Kusalik). Radio Morobe 3220 Lae f/d cd. in 21 ds. for 3 IRC's. (Kusalik). Radio Northern District 2468 Popondetta f/d form ltr. in 1 mo. for ms. v/s S. James Liedl, Station Manager. Letter listed power as 120 watts (?). (Cannon). Radio East Sepik 3335 Wewak ltr. in 42 ds. v/s Philip Koviromo, Station Manager. (Taylor). Radio Gulf District 3245 Kerema f/d cd. in 21 ds. for 3 IRC's v/s Jack Arieae. (Kusalik). Radio Milne Bay 3360 Alotau f/d cd. in 21 ds. for 3 IRC's.

(Kusalik)... You've been cleaning up on the PNG stations... Sam. Radio Western Highlands 2450 Mt. Hagen f/d "Map" cd. in 1 mo. (Alm). I am indebted to Dave Sarrazin for his tip in the March issue concerning Boroko. All 3 of my QSL's arrived in the same envelope. Thank you Dave.... Its nice to know that we are doing some good somewhere... Sam.

Dear Listener, Mr. Alm
Thank you for your Report.
This confirms that you were
listening to... NBC... on...
at... A.E.T.,
1026-1058 G.M.T.
This Transmitter is located at
KAVIENG
and operates on
2428Hz, 120 metres.
Power... R. NEW IRELAND
Triadic array aerial system.

Check these



Central Broadcasting System

87 LINGEN ROAD NORTH
TAIPEI, TAIWAN, REPUBLIC OF CHINA
CABLE ADDRESS: CENTRADIO
TELEPHONE 3512490

Dear Mr. Whitacre:

We are glad to have received your reception report of October 25, 1977. The program you received on 3230 KHz is verified to corresponding with our station log on the same day. We are interesting that it's the first time we recived report on this frequency from your country, and you have a Chinese report sheet too, we believe that there must be some Chinese friend in your Association. We would appreciate if we could get some detail report of our program.

We are sending you herewith a CBS verification fo reception and two broadcast schedules, hoping you continuously monitor our signal and welcome your further reports.

Also enclosed please find a booklet of Taiwan which introduces a better view of this country, the Republic of China at presnet; and some post cards of Col. Fan who recently defected from the communist tyrannical regime. you can see how happy he is and how he is welcomed here.



PERU: Radio Cultural Amauta 4955 picture postcard w/ EG verile text in 10 wks. for a SP report and ms. v/s Mrs. N. A. Cochran. (Sparks). same in 1 mo. after my 3rd try Sent SASE but not used. Message on the card stated that the station was founded 15 years ago by her late husband. V/S originally from Missouri. (Field).

Radio Andina 4995 form ltr. rcvd. in 2 mo. on my 3rd try for this one. SASE sent and again was not used. v/s Julia Rios I., Secretaria. (Field).

PHILIPPINES: FEBC DZ19 7225 f/d "Pacific Map" cd. in 3 mo v/s Zeny Visca, QSL Secretary. (Klein). DZE9 11890 cd. in 42 ds. (Marable). DZH7 9497 (lba???) f/d cd. in 5 wks w/ brochures and schedule. (Barto).

POLAND: Polish Radio 6095 f/d "Runners" cd. and sked from Lech Stanislawski in 98 ds. (Golkin).

PORTUGAL: Radio Portugal 11935 "Fountain" cd. in 3 wks. (Gallucci). same in 22 ds. for 1 IRC. (Padgett).

RHODESIA: RBC 3396 large "Map" cd. in 30 ds. (Prisco).

ROMANIA: Radio Bucharest 11940 f/d "National Costumes" cd. in 66 ds. for 1 IRC. "Amulet" also rcvd. (Dawson). 5990 w/ same cd. in 78 ds. w/ sked. (Golkin).

SARAWAK: RMS 4950 Kuching f/d "Broadcasting House" cd. in 3 wks. for ms. (Alm). 5030 w/ same cd. in 3 wks. for 1 IRC. v/s Sallah Astor, Director of Broadcasting. (Cannon). 5005 via Siby w/ same cd. in 28 ds. (Kusallik).

SENEGAL: Radio Senegal 4890 "Stringed Instrument" cd. in 120 ds. for a FR rpt. (Taylor).

SEYCHELLES: FEBA 9605 f/d "Map" cd. in 111 ds. (Wirsz). 11775 w/ same cd. in 16 ds. (Hamilton)

SICILY: RAI Caltanissetta 7175 "Ritratto di Bambino" cd. in 82 ds. (Taylor).

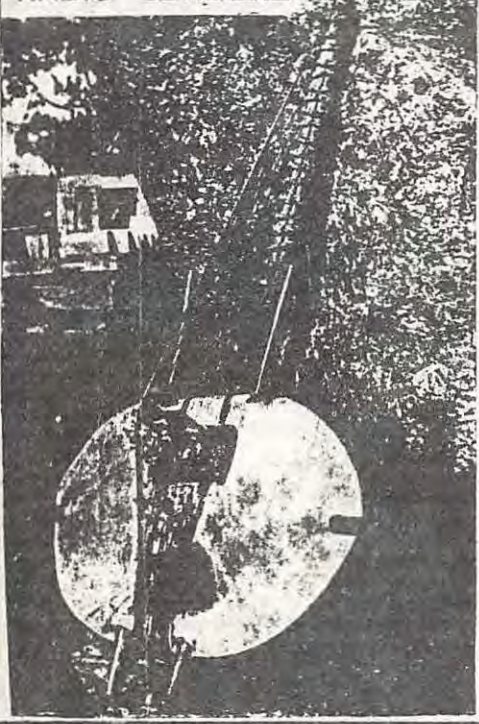
SIERRA LEONE: SLBS 3316 Freetown f/d ltr. in 33 ds. for 2 IRC's. v/s H. A. Lynch. (Dalum).

SOLOMONS: SIBC 5020 f/d white Togo cd. in 155 ds. (Wirsz).

SOUTH AFRICA: Radio Five 3220 f/d "SABC" cd. in 5 wks. (Sparks). 3320 w/ "Industrial" cd. in 28 ds. (Fedor). Springbok Radio 4810 f/d cd. in 24 ds. for 1 IRC. (Weber). same in 29 ds. for 1 IRC. (Wirsz). 9710 w/ "Montage" cd. in 34 ds. (Wallace). Radio RSA 11900 f/d "Zebra" cd. in 22 ds. for 1 IRC. (Fraser). 11900 w/ f/d "Johannesburg" cd. in 21 ds. (Kapinos). 15155 w/ f/d cd. in 20 ds. w/ pennant. (Wastradowski).

SPAIN: Radio Exterior de Espana 11880 w/ f/d ltr. in 5 wks. (Sapoznikow). in 44 ds. (Wastradowski). 11775 via Toledo w/ f/d ltr. in 5 wks. (Barto). 11815 via Toledo in 1 mo. (Barto). 11815 w/ f/d ltr. in 32 ds. for 1 IRC, which was returned. (Dawson). 11910 f/d ltr. in 3-wk (Barto). 11920 w/ f/d ltr. in 44 ds. (Wallace)

RADIO SENEGAL



THE VOICE OF AMERICA
WASHINGTON, D. C., U.S.A. 20547
Official Business
Penalty for Private Use, \$300

We are pleased to confirm your reception of our broadcast of 5/25/75
from Philippines
on 15220 kHz. 0300 GMT
Maica Vall
(Signature)

GREATER MANILA AREA RADIO-TELEVISION ARTS

SRI LANKA: SLBC 15425 f/d cd. in 212 ds. for 2 IRC's. (Byron). 11800 f/d cd. in 3 wks. (Matthews). 9720 same cd. in 141 ds. for 1 IRC. (Weber). Ravinda Bulathgama of the Radio DX Listeners League informs me that if any of NASWA's members are having difficulties in verifying the SLBC just send the RDXL your report with 3 IRC's and the QSL will be guaranteed! Addr: QSL Division, Radio DX Listeners League, 2 Lady Gordon's Drive, Kandy City, Sri Lanka.

SWAZILAND: TWR 4760 f/d "Warrior" cd. in 43 ds. for 2 IRC's. v/s D. L. Ellison. (Prisc)

SWEDEN: Swedish Telecommunications sco. Administration 15190 Varberg (SSB) w/ f/d cd. (Hywarren). Radio Sweden 9590 f/d cd. in 16 ds. (Sapoznikow). 11790 w/ cd. in 1 mo. (Gallucci). 9745 in 5 wks. (Barto). 11855 w/ multi-colored cd. in 1 mo. (Barto).

THE
QUESTION
BOX



THE
QUESTION
BOX

Can any of our readers identify the emblem of this inactive East African SWBC station? Will the old timers come through?

Your report dated November 12,
is confirmed for Station DZU6
11910 mhz. 25 mtrs.
Transmitter: 50 Kilowatts
Antenna: 2-curtain log periodic

Please send reports regularly. Your interest and prayers are appreciated. Let us all continue to work for World Brotherhood and Peace in our time.

Yours in His Service,

CONSTANTINO E. BERNARDEZ
Executive Director-SEARV

SWITZERLAND: SBC 9725 f/d "Building" cd. in 50 ds. (Wastradowski). same in 5 wks. (Gallucci). 15430 f/d cd. in 28 ds. for 1 IRC. (Davidson). 15230, 15430, 17830 and 21520 f/d cds. in 1 mo. (Barto). ICRC Radio 7210 "Globe with Earphones" cd. in 31 ds. for 1 IRC. (Wastradowski).

TAHITI: FR3 Radio Tahiti 15170 "Mermaid" cd. in 24 ds for a FR rpt. and ms. (Taylor). same in 2 mo. for 2 IRC's w/ sked. (Klein). in 50 ds. for an EG rpt. and 2 IRC's and a few old stamps. (G. Brown).

TAIWAN: Voice of Free China 15345 f/d "Crape Myrtle" cd. in 32 ds. for 2 IRC's. (Prisco). 9600 in 36 ds. w/ calendar and a BCC pennant. (Marable). 15425 w/ same cd. in 37 ds. (Salay). 15425 w/ f/d "Sung Dynasty" cd. in 55 ds. (Brooker). received 5 postcards honoring Pilot Fan Yuan-Yen, a sample of their cd. which is suitable for framing, a very large blue

and white pennant and a stick pin. v/s Chen Mei-Sheng, Department Director. (Barto). Central Broadcasting System 3230 ltr., large f/d cd. and postcards in 2 wks. for an EG report. (Sparks).

THAILAND: Radio Thailand 4830 f/d "Grand Palace" cd. and a very nice ltr. requesting more reports in 15 wks. for 1 IRC. w/s Somchit Siddhichai, Director. (Howard). 9654 w/ cd. and ltr. in 70 ds. (Tuchscherer).

TOGO: Radio Togo 5047 f/d "Map" cd. in 51 ds. for a FR rpt. and 2 IRC's. (Prisco). in 41 ds. for a FR rpt. and 1 IRC.

TUNISIA: RTV 7275 f/d "Djarba Mosque" cd. in 16 (Meehan). ds. (Prisco). same cd. for 15225 in 50 ds. (Taylor). 7275 w/ "Camels" in 27 ds. (Dalum). 7275 w/ f/d "Hotel el Hana" cd. in 4 wks. (Alm). 11970 w/ f/d "Beach Scene" cd. in 5 wks. for a FR rpt and 1 IRC. (Pyatt).

TURKEY: Voice of Turkey 9515 f/d "Folk Dancers in traditional costumes" cd. in 31 ds. w/ sked. and pennant. (Fraser). in 19 ds. (Pyne). f/d "Carpet" cd., tourist booklets and a pennant in 43 ds. (Wirsz). The Letter Box section of the VOT's booklet recently had a write up about Richard Swanson one of our members... Sam.

UKRAINIAN SSR: Radio Moscow via Vinnitsa on 5940 w/ f/d cds.

In 1 mo. and via Lvov on 6120 and on 7215 and via Ivanov-Frankovsk on 7110 also in @ 1 mo. (Hywarren). via Vinnitsa

on 7130 in 38 ds. (Wastradowski). via Lvov on 7215 in 1 mo. (Barto). Radio Kiev on 7150 w/ "Building" cd. in 2 mo. for 1 IRC. (Doyte). 7360 w/ "Ukrainian People" cd. in 26 ds. (Leithner). 7215 w/ "St. Sofia's Cathedral" cd. in 2 1/2 mo. (Matthews).

USA: WINB 15185 f/d cd. in 2 wks. (Leithner). 17880 w/ cd. in 10 ds. (Gallucci). WYFR f/d cd. in 3 wks. (Bares). 17845 w/ f/d blue and white map cd. in 3 wks. (Barto). UN Radio 6055 f/d "Logo" cd. and sked. in 136 ds. (Wirsz). VOA Bethany 15140 f/d cd. in 20 ds. (Wallace). VOA Delano 21460 f/d "Four Seasons" cd. in 10 ds. v/s Gayle Kucera. (Kapinos). VOA Dixon 15250 w/ f/d cd. in 12 ds. v/s Kathy Burson. (Padgett). cd. in 6 ds. (Baum). 15250 in 25 ds. (Gallucci).

NEXT MONTH

Next month we will feature QSLs from Central America and also feature some very old verifications from the collection of Sydney J. Osterman... including such places as Panama, Trinidad, Ireland and others!!!

from the
W. C. Buras
collection



QSL CARD
SRI LANKA BROADCASTING
CORPORATION.
COLOMBO - 7, SRI LANKA.

Confirming your reception report of our Transmission on frequency 11835..... KHZ in the .. 25..... Metre Band at 1120.. hrs. G.M.T. on 24/NOV/77...

Thank you for your report.

Yours sincerely,

W. C. Buras
W. C. Buras
Director Research

Philippine Broadcasting Service



OVERSEAS SERVICE OF THE
DEPARTMENT OF PUBLIC INFORMATION
BUREAU OF BROADCASTS

Gratefully acknowledges your report of our transmission on 6170 KHZ which was checked against our log and found to be correct.

THANK YOU and "MABUHAY!"

from the
REPUBLIC OF THE PHILIPPINES

GSIS BDLG.
MANILA
PHILIPPINES

Florentino S. Dauz
FLORENTINO S. DAUZ

DIRECTOR



Keep supporting this QSL
Column and your collection
can't help but increase!!!

RADIO MINDANAO NETWORK, INC.

"The National Radio Network"



Radio New Zealand

SPECIAL OFFER

World DX Club QSL List

This is an excellent 32 page listing of QSL's reported by members of the World DX Club (WDXC) and the Worldwide DX Club (WWDXC) during the years 1969 to 1973 and all QSL's reported by members of the WDXC during the years 1974 to 1977. This listing covers the broadcast band, longwave, television, FM as well as the international shortwave bands. The cost for this excellent publication for non-WDXC members is 5 IRC's via seammil or 7 IRC's via airmail. Orders and payment should be sent to WDXC, 17 Mospur Drive, Northampton, NN2 6LY, England.....or you may order the publication direct from your NASWA QSL Editor for \$1.00. This will cover postage and handling. A royalty is being sent back to the WDXC..Sam.

USA: Voice of the Voyageur 5850 f/d ltr. from the "Top Man of the BBI" and from the "Top Man of the VOV". This QSL was mailed from Ann Arbor, Michigan. Jim Roberts QSL was posted from Detroit. (Hywarren).....I listen every night but nothing here. Please call gang if you hear this one on....Sam.(1-203-274-1142).

USSR: Radio Moscow 7130 (no site) in 20 ds.(Brouillette).

UZBEK SSR: Radio Tashkent 9600 f/d cd. in 60 ds. for 1 IRC.v/s Dilorom Karimova.(Weber).

VATICAN CITY: Radio Vatican 9605 f/d cd. in 28 ds.(Pyne).same cd. in 5 wks.(Reynolds).

VENEZUELA: Radio Rumbos 9660 f/d "City Highway" cd. in 7 mo. for a SP rpt.(Meehan).9660 and on 4970 in 239 and in 270 ds. respectively for an EG/SP rpts. and 2 IRC's.(Weber).4970 w/ f/d "Bridge to Maracaibo" cd. in 32 wks. for a SP rpt.(Cannon).Ecos del Torbes 4980 form ltr. in 154 ds. for a SP rpt. and ms. v/s Gonzalez Louera.(Hoffman). Radio Nacional 15400 Caracus "Callelos Lanceros, Puerto Cabello" cd. in 1 mo. via registered mail. v/s Charlie Nash. (Klein).Radio Juventud 4900 "Dancers" cd. in 55 ds. for an EG report.(Wirsz).same in 50 ds. for a SP rpt. and 1 IRC. (Klein).

Vietnam: Voice of Vietnam 10040 f/d plain cd. w/ official station stamp in 132 ds. for an EG report and 1 IRC. Also received a magazine and a VOV pennant. (Hoffman).



Iraq emblem via
Leslie Byron.



mula sa RADYO PILIPINAS

Third Annual New England Area DXers Outing

Its getting to be that time again gang. According to established tradition, the outing will be held on the first Sunday following Labor Day. This year its September 10th. It will be held at Black Rock State Park in Watertown, Conn. The first outing held in 1976 attracted 32 participants. Last year a total of 53 people attended the cookout. This year we hope to attract over 75 DXers with their families and friends.

One of the events at this years outing will be a "Sell and Swap-a-Thon." At this one may be able to sell, purchase or swap receivers, antennas, books, records, amplifiers, tuners or any other articles relating to DXing. Attendees will be encouraged to bring any excess gear or equipment with them for possible sale or swap.

If you "tentatively" plan to be in attendance and would like to receive more detailed information, please contact: Sam Barto, NASWA QSL Editor, 245 Cherry Ave, Watertown, Conn.

The following letter was received from Mr. Morton Ronick of Virginia Beach, Virginia. It speaks for itself and deserves reprinting in the column.....Sam.

Dear Sam:

Today I received a very unusual and interesting reply to a reception report that I mailed on March 11th, 1978 covering a broadcast which I heard on March 11th.

I received a phone call from James Curry, Program Director of Radio Caracas, YVCR, Apartado 2057, Barceñas A. Rio, Caracas, Venezuela. The call was in response to my report of March 11th in which I requested a QSL card if my information in the report was correct. Mr. Curry has lived in New Jersey some time ago and speaks English very well. However, he was not familiar with the term QSL card and wanted to know what he could do to obtain one for me. It seems that their broadcasts do not usually go beyond their city limits and in the past as far as anyone can remember they have only received two reception reports other than mine, one being from Massachusetts and the other being from Europe.

Mr. Curry advised that in the near future Radio Caracas will be increasing their power by about 600% and they are very much interested in receiving reception reports from anyone who may hear their broadcasts.

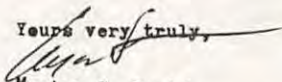
I told Mr. Curry that if his station will have an unusual card printed with full verification information and start using these cards for QSL's, he could be sure that he would be kept informed of most of the broadcasts that would be received. I am sending him examples of various cards today. He also advised that since they did not have cards at this time, he would send me a letter of verification in the mail today.

I thought that this may be of interest to you for your QSL REPORT in FRENDEX.

Kindest regards.

MSR/sc

Yours very truly,


Morton S. Ronick


P.S. They will answer English or Spanish reports addressed to James Curry.

YUGOSLAVIA: Radio Beograd 9620 f/d folder cd. in 39 ds. w/ calendar and schedule. (Pyne). same in 45 ds. w/ pennant. (Byron). 15240 cd. and a letter in 43 ds. This was my first reply from this station in over 3 years. Seemingly the atmosphere has changed. (Tuchsch-erer).....Hope so...Sam.



TGNA

Best of DX and QSLing,



A little short this time gang.
Only 106 countries to report.
Hope everyone can get something
out of the column...and a few QSL's.

Get those letters in to me
if you plan to attend the
New England Area DXers Outing
in Watertown.....Sam.



MYRON SMITH
 36 Ogden Center Road
 Spencerport, New York 14559

	Reporter/Location	#	#	LOC	YR	RECVR	C/H	C/V	S/H	S/V	North America	
											C/H	C/V
1	James Young, Calif	3	25	HQ180A	222	207	860	284	--	--	-----	
2	John Tuschscherer, Wisc	1	55	HQ180A	219	---	1138	---	26	+-	CKFX 6080	
3	Dan Henderson, MI	3	12	-----	218	203	---	---	21	20	CKFX 6080	
4	Irving Johnson, Calif	1	6	SPR4	218	71	---	---	23	6	Turks & Caicos 4788	
5	Sam Barto, Conn	3	13	-----	216	203	1351	916	---	---	-----	
6	Richard Pistek, Ill	1	15	HQ180A	214	208	---	385	22	21	CKFX 6080	
7	Bob Padula, Australia	1	12	-----	212	205	---	---	---	---	-----	
8	Marlin Field, Mich	1	17	SPR4	211	205	857	722	22	22	Em Casa Cultura 4820	
9	Bill Sparks, Calif	1	22	R390A	211	205	---	662	19	19	HOH31 Panama 9685	
10	Al Sizer, Conn	1	9	SPR4	211	201	884	326	20	19	CFVP 6030	
11	Geoff Cosier, Australia	1	5	SR5DS	211	182	---	---	---	---	-----	
12	Edward Shaw, Ky	2	13	-----	210	199	783	458	20	18	CKFX 6080	
13	Ernie Behr, Ont	2	25	-----	210	186	1040	310	24	21	Turks & Caicos 4788	
14	Alan Mayer, Ill	1	17	SPR4	209	182	709	316	20	19	CKFX 6080	
15	David Potter, Fla	1	10	-----	207	---	780	---	---	---	-----	
16	Roger Legge, Va	4	44	51J4	204	177	---	746	27	25	VP2LO St Kitts 6384	
17	Paul Routenburg, Ont	2	5	SPR4	204	151	590	244	---	---	-----	
18	Edward Kusalik, Ont	3	12	R388	203	169	351	278	---	---	-----	
19	Dan Robinson, DC	4	8	SPR4	203	167	---	---	---	---	-----	
20	Myron Smith, NY	1	14	SX190	201	163	---	248	22	19	R Gronland 9575	
21	Bill Whitacre, Mich	1	8	R4B	201	159	---	195	18	15	BBC Antigua (1st issued)	
22	Jerry Berg, Mass	3	19	SE310	200	192	---	---	---	---	-----	
23	Albert Garrou, Ill	3	11	-----	200	144	342	178	---	---	-----	
24	Al Niblack, Ind	-	---	---	200	130	---	---	---	---	-----	
25	Victor Jaar, Que	2	13	R530	198	4	---	---	21	1	R Gronland 11745	
26	Alan Roth, NY	1	18	SPR4	197	181	610	465	22	19	Barbados 5040	
27	Gerald Bishop, Pa	2	3	-----	194	141	496	216	22	17	CKFX 6080	
28	Al Miller, Ohio	1	6	-----	193	174	499	230	19	18	CFVP 6030	
29	Jim Fedor, Calif	2	3	FRG7	192	119	406	177	---	---	CKZN 6160	
30	Larry Yawron, Pa	2	7	-----	190	149	---	---	---	---	-----	
31	Larry Abraham, Mich	1	6	HQ180A	188	144	383	201	20	19	R Lux de Honduras 4890	
32	Neal Perdue, Ala	2	7	HAG00A	188	55	---	---	---	---	-----	
33	Tom Gavaras, Minn	1	8	HQ180	185	144	309	222	---	---	-----	
34	Andy Robins, Mich	2	5	-----	182	129	---	---	19	15	R Citadelle 6156	
35	Joe DiLeo, Conn	1	8	-----	179	153	522	349	18	17	Turk & Caicos 4788	
36	John Fisher, Ont	1	7	-----	178	136	436	228	20	16	R Tezulutian 4835	
37	Rob Vokes, Tex	2	3	-----	178	103	516	135	15	12	R Grenada 5015	
38	Kent Willis, Ky	1	2	392URR	176	132	410	135	---	---	R Gronland 9575	
39	John Herkimer, NY	1	8	FRG7	175	151	---	---	18	18	Turks & Caicos 4788	

Reporter/Location	#	#	LOC	YR	RECVR	C/H	C/V	S/H	S/V	North America		Best QSL/frequency
										C/H	C/V	
40 John Sgrulleta, NY	1	19	SPR4	174	174	---	---	21	21	R Gronland	9575	
41 Charles Brunner, Pa	1	4	-----	174	85	---	---	---	---	-----	-----	
42 Mike Ryan, Calif	-	-	CRF320	172	153	---	---	---	---	RPC Panama	9685	
43 Hank Michalenka, RI	1	11	-----	172	136	293	154	20	19	Turk & Caicos	4788	
44 Albert Cannon Jr, NC	1	8	HQ100	171	136	252	182	17	14	CFVP	6030	
45 Chris Lobdell, Mass	1	13	FRG7	169	152	---	---	---	---	-----	-----	
46 Charles Wootten, Turkey	6	5	R530	169	140	425	308	14	12	Turks & Caicos	4788	
47 Bobby Hobbs, NC	1	6	FRG7	168	96	262	153	---	---	-----	-----	
48 Martin Foltz, Mich	1	6	5J2Z	167	111	330	137	19	12	CKZN	6160	
49 David Sarrazin, Colo	1	3	NC183D	167	104	249	117	16	12	R Gronlands	9575	
50 Ron Howard, Calif	2	7	SB310	166	137	---	---	18	17	Turks & Caicos	4788	
51 Hadley Cress, Va	1	5	HR0500	165	6	---	---	19	1	Turks & Caicos	4788	
52 Wade Smith, Mass	2	6	-----	164	95	---	---	15	11	Guatemala	6090	
53 Troy Gower, Ill	1	3	XCR30	160	128	170	135	16	16	R Gronland	5980	
54 Robert Wiles, W Va	1	3	XCR30	160	122	---	174	---	---	-----	-----	
55 Richard Schwartz, Del	5	20	-----	160	121	---	---	---	---	Turks & Caicos	4788	
56 Bob McCoy, Nebr	1	5	DX150B	160	81	352	94	15	10	R Belize	3300	
57 Jay Florian, Ill	4	4	-----	159	100	373	151	---	---	-----	-----	
58 Jerry Lineback, Ill	1	9	SPR4	158	94	308	117	17	12	Turks & Caicos	4788	
59 Jerry Stuart, Okla	1	13	-----	156	125	224	216	29	25	CFVP	6030	
60 Terry Krueger, Fla	6	6	QR666	150	96	277	152	---	---	-----	-----	
61 Neal Kolb, Fla	-	-	-----	149	75	---	---	18	9	-----	-----	
62 Robert Beaudoin, Conn	1	2	R388	148	108	---	126	14	10	-----	-----	
63 Bryan Price, Ky	1	8	-----	148	78	320	95	17	14	R Belize	3300	
64 John Lackmann, Va	1	8	SPR4	148	11	---	11	17	2	R Havana Cuba	17705	
65 Michael Agner, NJ	2	5	R4B	146	79	361	82	---	---	-----	-----	
66 Andre Pineault, Que	1	5	FRG7	145	108	237	130	17	12	Martinique	5995	
67 Jack Troy, Va	1	4	-----	145	37	---	---	---	---	-----	-----	
68 Jim Uerlings, Ore	3	7	SPR4	145	11	310	11	10	1	-----	-----	
69 Niel Wolfish, Ont	1	2	-----	144	100	295	153	15	11	R Grenada	15105	
70 Robert Smith, Ill	1	1	-----	144	85	---	---	13	7	R Man	4825	
71 Dan McCarthy, Fla	2	3	DX160	143	122	182	158	17	16	R Swan	6000	
72 Tom Overcamp, SC	2	5	SP600	143	116	---	---	17	15	Turks & Caicos	4788	
73 Mitchell Taylor, Ga	2	2	DX160	141	82	215	89	15	12	R Mil	4930	
74 Woody Seymour Jr, NC	1	10	SPR4	138	111	177	140	16	13	R Casio	5954	
75 Greg Ravenhorst, Minn	1	5	R4C	138	100	210	143	14	13	R Yellowstone Park	1606	
76 Ira Teitelbaum, NJ	1	3	FRG7	137	132	336	281	12	11	-----	-----	
77 Allan Courtney, Ky	1	6	SX190	136	51	266	56	16	5	Turks & Caicos	4788	
78 Lauren Ware, Va	1	2	DX160	136	47	276	51	14	4	R Grenada	15105	
79 Henry Rockwood, Ohio	1	3	-----	135	108	---	140	16	13	R Belize	3300	
80 Charley Hoffman, Pa	1	3	FRG7	135	101	---	---	16	14	R Gronland	5980	
81 Arthur Watson, BC	1	4	-----	135	74	275	91	14	10	RTV Dominicana	9505	
82 Mac Leonhardt, Ind	-	-	-----	133	70	---	---	---	---	-----	-----	
83 Neil Schulman, NY	1	2	-----	132	83	224	95	10	8	RTV Dominicana	9505	
84 Conrad Richardson, Va	1	2	FRG7	132	3	173	3	20	---	-----	-----	
85 Philip Wala, Mich	1	8	5900W	131	97	241	143	14	13	R Belize	3300	
86 Steve Kennedy, Fla	1	1	SW4A	131	82	281	108	16	15	CFCN	6030	
87 Scott Newman, Ill	1	5	RF5000	130	90	---	---	---	---	-----	-----	
88 Robert Fleck, Ill	2	11	SW4A	128	100	---	---	---	---	-----	-----	
89 Henry Lazarus, La	1	10	SX100	125	117	368	303	17	17	R Landia	4870	
90 Mike Hardester, Okinawa	2	9	SPR4	124	114	239	194	14	13	Turks & Caicos	4788	
91 Edward Pyatt, Pa	5	14	XCR30	123	110	183	158	11	11	XEXDX	6045	
92 Adam Gaffin, Mass	1	5	SSR1	123	79	269	129	---	---	-----	-----	
93 Larry Edelstein, NY	1	7	SPR4	123	27	---	---	13	4	R Nederland Bonaire	-----	
94 Brian Alexander, Pa	1	7	DX160	121	65	226	87	14	7	TIFC	9645	
95 Jeff Roth, Ohio	1	10	5900W	120	81	210	89	---	---	-----	-----	
96 Bill Bogel, Calif	2	2	FRG7	120	---	---	---	---	---	-----	-----	
97 David Snyder, NY	1	4	-----	119	54	---	---	---	---	-----	-----	
98 Jim Davis, Calif	-	4	-----	118	77	228	92	13	9	CFRX	6070	
99 Bill Reynolds, NY	1	9	SW4A	118	58	152	82	12	6	Neth Antilles	15345	
100 John Huntwell, NJ	-	3	FRG7	117	98	133	109	---	---	R Belize	3300	
101 Peter Schipelliti, Mass	1	2	FRG7	117	53	212	80	10	4	CKZN	6160	
102 Michael Selay, Ohio	1	1	FRG7	116	75	184	86	15	9	Grenada	15105	
103 Werner Hoffman, Calif	1	2	-----	115	---	180	---	10	---	-----	-----	
104 Dave Twiggs, Conn	1	2	-----	114	78	226	121	2	2	CKZN	6160	
105 Graeme Brown, BC	1	1	-----	113	57	164	93	10	7	CFRX	6070	
106 Gerald Word, Ga	1	12	FRG7	109	91	---	---	---	---	-----	-----	
107 Robert Vlau, Que	1	5	HR050T	108	91	145	119	16	12	Martinique	3315	

Reporter/Location	# #		RECVR	C/H C/V		S/H S/V		North America		
	LOC	YR		C/H	C/V	S/H	S/V	C/H	C/V	Best QSL/frequency
108 Steve Shotola, Ill	1	3	DX160	108	75	164	92	--	--	-----
109 Robert McIntosh, Ont	1	2	SPR4	107	66	139	84	12	8	CHNX 6130
110 Dave Valko, Pa	1	2	DX160	106	70	146	78	14	11	R Belize 3300
111 Rizal Baysa, Mich	-	8	RF2200	106	66	147	82	--	--	-----
112 Dan Morisseau, Nebr	1	8	FRG7	106	38	195	51	14	4	CFVP 6030
113 Kevin Mikkell, Ill	1	3	RF2200	104	84	234	155	13	12	R Maya Barillas 3325
114 Bruce Schoenfeld, Conn	1	5	-----	104	71	206	88	--	--	-----
115 Pat Tobin, Pa	1	3	-----	103	74	165	93	--	--	-----
116 Jay Hamilton, SC	1	2	RF4800	103	70	-----	-----	14	7	R Huayacocotla 2390
117 Keith Russell, Ill	2	4	-----	101	69	145	71	15	9	Turks & Caicos 4788
118 Mildred Marshall, MD	1	9	SX122	100	89	164	142	13	12	R Clarin 4850
119 Bruce Lavery, Ga	1	1	-----	100	2	184	2	--	--	-----
120 Gary Biasini, Alta	1	2	SPR4	99	48	-----	-----	12	5	HRVC 4820
121 Joe Delap, Ark	1	2	-----	98	45	177	60	--	--	-----
122 Tom Blossom, Ohio	4	16	SPR4	97	84	-----	-----	14	12	R Gronland 11745
123 Susan Wyllie, Mass	1	4	-----	97	79	146	118	--	--	-----
124 Frank Hermann, Ont	2	4	DX160	97	74	182	130	12	7	CHNX 6130
125 Pete Grenier, Calif	2	8	FRG7	97	68	126	78	14	10	WRUL/WNYW
126 Ted Muszynski, Conn	1	3	RF2200	96	43	143	46	12	5	R Belize 3300
127 William Mann, Ont	1	6	SX190	94	80	104	90	--	--	-----
128 Timothy Noonan, Wisc	1	2	-----	94	66	180	93	--	--	-----
129 Charles George, Tex	1	5	SR1	94	66	-----	-----	14	10	R Progresso 4920
130 James Mulvey, NY	1	3	-----	90	75	-----	-----	--	--	-----
131 Mike Brooker, Ont	5	5	TFM80	86	64	125	81	--	--	-----
132 Robert Wallace, Japan	2	1	CF950	86	62	127	98	3	3	R Habana Cuba
133 Michael Bolitho, Ont	1	1	-----	86	59	110	70	12	10	TIPC 9645
134 Jay Golden, Ill	-	-	-----	84	57	105	71	--	--	-----
135 Arnold Lausevich, Wisc	1	5	-----	82	67	-----	-----	--	--	-----
136 Tim Barany, Ill	1	2	5900W	82	63	-----	-----	--	--	-----
137 Dale Bohlke, Minn	1	1	FRG7	82	43	103	55	--	--	-----
138 Jackie Cole, Colo	8	6	SW4A	81	56	-----	-----	9	5	Dominican Rep
139 Albert Mick, Pa	1	4	Sound	80	78	170	149	--	--	-----
140 Mickey Delmage, Man	1	5	SX190	79	74	113	96	14	12	R Progresso 4920
141 Robert Ward, NB	1	2	SX190	79	57	128	69	7	3	TWR Bonaire 11925
142 Edward Stroh, Ill	1	2	SPR4	78	59	97	70	11	8	TIPC 9645
143 Bill Leal, Ont	1	7	FT101E	78	53	109	69	10	8	TIPC 9645
144 John Sillings, NY	1	2	HAG00A	77	59	113	82	--	--	-----
145 James Smallwood, Ala	1	2	MARK4	75	26	104	43	10	5	TWR Bonaire 11815
146 Chuck Self, Minn	1	2	DX150A	74	58	109	75	--	--	-----
147 Anton Dubrick, Ill	1	2	-----	73	46	119	67	10	6	R Capital 4832
148 Tony Capobianco, NY	4	4	SW4A	69	53	-----	-----	--	--	-----
149 Robbie Berezowski, Alta	1	2	Dx160	69	42	86	46	--	--	-----
150 Aaron Gadous, Vt	1	2	-----	67	29	80	31	--	--	-----
151 Kevin McManus, BC	2	2	DX160	65	53	75	64	12	10	CKZN 6160
152 Roger Peterson, Conn	1	1	-----	64	57	68	60	--	--	-----
153 Daniel Conti Jr, NY	1	1	FRG7	64	45	73	51	--	--	-----
154 Larry Klassman, Ill	1	1	-----	61	50	76	61	5	5	R Cultural Guat 3300
155 Ken Delong, Pa	1	2	5900W	61	45	76	60	7	6	CFCF 6005
156 Gerald Clark, Ind	1	3	DX160	61	37	80	40	10	5	TGNA 3300
157 Scott Blixt, Minn	1	2	NC183	60	42	81	54	9	7	V of Voyager 5850
158 Martin Alintuch, Mass	1	1	-----	59	45	78	59	7	4	R Habana Cuba 11930
159 Joe Dias, Calif	1	3	ASTR08	59	45	75	56	--	--	-----
160 Robert Goss, Tex	1	1	DX160	58	38	72	45	8	5	TGNA 3300
161 John Hancock Jr, Calif	1	1	DX160	58	27	115	38	2	2	-----
162 Wayne Grow, Pa	1	4	-----	58	20	75	20	9	3	4VRE 11835
163 Joe Inhat Jr, Pa	1	3	DX160	55	47	62	55	--	--	-----
164 Bob Schneck, Mo	1	1	-----	55	21	80	25	--	--	-----
165 Chuck Neff, Ill	2	2	SC46077	54	42	66	52	10	7	HRVC 4820
166 Robert Zajda, Mass	1	2	DX160	54	34	66	38	--	--	-----
167 Thomas Kenny, NJ	1	3	DX160	54	25	62	31	5	4	CFCX 6005
168 Rita Verneti, Kwajalein I	-	-	CRF320	52	40	-----	-----	4	4	R Canada 9655
169 Tom Jeffrey, Ariz	-	-	HQ100A	52	21	-----	-----	--	--	-----
170 James Matthew, Vt	3	4	FRG7	47	38	60	44	--	--	-----
171 Dave Hascall, Ind	1	3	-----	47	20	56	29	--	--	-----
172 Tom Lister, BC	1	1	DX160	46	28	58	34	--	--	-----
173 John Hathaway, Ill	1	12	-----	44	20	215	48	--	--	-----
174 Lexington Smith, NY	2	4	XCR30	43	20	-----	-----	--	--	-----
175 Chris Leithner, Tenn	1	1	GE2971	34	20	54	30	3	2	-----

Reporter/Location	# #		C/H C/V	S/H S/V	North America		
	LOC	YR			RECVR	C/H	C/V
176 Mike Colacau, Mass	1	1	DX160	33	25	---	-----
177 Bobby Dunningan, NC	1	1	-----	33	13	42	16
178 Peter Giacopelli, NY	1	1	-----	31	24	---	-----

TOP QSLers

1 Richard Pistek	208	11	Ernie Behr	186	21	Bill Whitacre	159
2 James Young	207	12	Geoff Cosier	182	22	Joe DiLeo	153
3 Bob Padula	205		Alan Mayer	182		Mike Ryan	153
Bill Sparks	205	14	Alan Roth	181	24	Chris Lobdell	152
Marlin Field	205	15	Roger Legge	177	25	Paul Routenburg	151
6 Dan Henderson	203	16	Al Miller	174		John Herkimer	151
Sam Barto	203		John Sgrulleta	174	27	Larry Yamron	149
8 Al Sizer	201	18	Edward Kusalik	169	28	Al Garrou	144
9 Ed Shaw	199	19	Dan Robinson	167		Larry Abraham	144
10 Jerry Berg	192	20	Myron Smith	163		Tom Gavaras	144

A hearty thanks to Diane Levesque for the new logo for the column.

In the last issue I asked if we should change the order of standings to countries verified instead of countries heard. The question prompted a lot of comment. The vote came out 18 for leaving it as is and 6 for changing. Those who voted not to change noted that the hobby is based on honor and a country heard is just as good as one verified, particularly with the loose QSL policy of some stations making it possible to get a QSL with bad reports. Also some said they couldn't afford to QSL. So we will not change. But some people did suggest expanding the "top QSL" list at the end. Since the rankings by Spotlight continent often proved to be meaningless, I replaced them with a larger QSL list.

Thanks to all who reported and all who expressed an opinion. Next deadline August 15, SPOTLIGHT is AFRICA. Remember you must send me your updates at least once a year. 73e

Myron

HELPING HAND: For sale. Drake SW-4A with matching MS-4 speaker in excellent shape. Included is crystal for 4.5 - 5.0 MHz coverage. Price is \$95.00 which includes free UPS shipping to anyplace in the U.S. Contact Chris Lobdell, Box 146, Stoneham, MA 02180. Tel: (617) 438-3022 days; (617) 321-6698 evenings.

HELPING HAND: Wanted. SSTR-1 radio made by O.S.S. during World War II for resistance groups. Send description of radio's condition and price to William Quinn, 6810 14th Ave., Brooklyn, NY 11219.

HELPING HAND: Wanted. Used SX-62 Hallicrafters SW and FM receiver. Please send description and price wanted to Dave Hascall, 211 North Merrill, Fortville, IN 46040.

HELPING HAND: For sale. FRG-7 with Gilfer modification and matching ear-phones. One year old and in excellent condition. \$210.00 plus shipping. Contact Ira Teitelbaum, 46 Briscoe Terrace, Hazlet, NJ 07730.

HELPING HAND: For sale. Proceedings of IEEE, IRA, IEEE's "Spectrum", issues from early '50's to early '70's, complete 50th Anniversary issue of IRE (May 1967). \$1.00 for anniversary issue, 75¢ each for proceedings, 50¢ for "Spectrum" or \$20.00 for the set or best offer, plus shipping. Contact Diane Levesque, P.O. Box 2573, Carbondale, IL 62901. (IEEE = Institute of Electrical & Electronics Engineers. IRE = Institute of Radio Engineers.)

As you will notice, we are missing Log Reports A and B and also the Credit Page this month. Dan Robinson never received the slips for Log Report A and the other columns, although they were mailed in time, haven't arrived here yet. On the Headquarters Page there is a notice concerning a new Distributing Editor. Dave Walcutt has kindly volunteered to take over this job. Please send Log Report slips to Dave. The address is on Log Report D.

update

June 1978 Number 20

Tom Alleman
615 W. 43rd Terr., Apt. 6
Kansas City, MO 64111 USA

(816) 931-5943 2330-0300 GMT

UPCOMING DEADLINES: 10 June (Mid-June); 19 June (July); 12 July (Mid-July)

Reprinting permitted provided credit is given original reporter and NASWA UPDATE. Dates, times and days are GMT; freqs are kHz.

CAN ANYONE HEAR ME OUT THERE???: As you will note below, this is a very skimpy issue. With over 1500 potential UPDATERS out there, it is simply inconceivable that some of you aren't hearing something worth sharing with the rest of us. If each of you sent in one report a month, I'd have to move into a bigger apartment to keep up with the mail. The gist of this little editorial is simply that UPDATE--and every other FRENEX column for that matter--is only as good as what it gets from you. I know that summer is upon us and that solar conditions are worse but there is still plenty to be heard and reported. So, troops, how about it????

Starred (***) items appeared originally in UPDATE 19.

AUSTRIA ORF at 1230 has moved from 15320 to 15155 to escape QRM, but there is certainly no improvement here. This is an EG px beamed to NAM // 9770, 17710. (Bob Zilmer, WI)

BOLIVIA R. Panamericana, 6035, in SP at 1035 w/ Buenos Dias Bolivia, Bolivian mx and lots of flutes. Good. (Jack Jones, MISS; 5-10)

BRAZIL Rdf Roraima, 4835, in PT 0322 w/ samba rhythms. Fought another Brazilian on freq, which I suspect was Teresina. ID by W as "Roraima" at 0330. First time in a while. (tba) +++ R. Cult. do Para, 5045, w/ usual muzak style format 0252. (tba)

BULGARIA R. Sofia heard on 15330 at 0000 w/ EG px. Strong enough to wipe out AFRTS on 15330 at times. Heard every day now, in an apparent move from 9705. (Zilmer, WI) *** Possibly to escape from Moscow jamming reported by Bob some issues ago. tba

CHILE Voice of Chile heard on 11925 at 1100 w/ EG commentary on their industry. Fair signal on 12 May. (Zilmer, WI)

COLOMBIA LV del Centro, 6095, in SP 1025 w/ ID, TC, greetings to listeners, campesino mx. AFRTS absent. Good sigs. (Jones, MISS; 5-10) +++ LV de Huila, 6150, at *0800 w/ pretty native mx and good sigs. (Charles George, TEX) *** I inadvertently left this and Charlie's other report out of the last issue. They appear this time with my apologies. tba

DOMINICAN REP. RTVDominicana, 5970, noted at 0530 17 May // 9505 w/ election results. (Stu Klein, FLA) *** Was anyone listening when the Army seized the ballots?? tba

ECUADOR LV de los Caras, 4795, in SP 0357 w/ rock mx, short and distinct ID, then more rock mx. Good sigs. (Jones, MISS; 5-18) +++ R. Quito, 4822a, in SP 0402 w/ ID, TC, Ecuadorian mx and the ever present bad het. (Jones, MISS; 5-18) +++ R. Rio Amazonas, 4870, in SP 0207. Religious px to 0230, then jazz guitar mx and ID. The religious px gave a Quito address which could have been that of HCJB. Annrc sounded like one of theirs too. (tba)

EAST GERMANY RBI heard on 11840 // 11890 at 0330 w/ EG nx. Good signal on both freqs on 5-12. (Zilmer, WI)

ISRAEL IBA, 15105 NF, in EG *0500-0515 T/out. (Klein, FLA) +++ IBA Home Service "B" now heard on 17630 from 0400 to 2310. At 2000 EG px was heard on low power 21650 on 14 May. Heard under QRM, // 17685, 11655, 9815, 9425, and 9009. At 1200, freq of 21495 is now heard on a clear freq w/ EG px beamed to Europe and NAM. This replaced 21500 and is // 17815, 15530, 15405, and 11655. (Bob Zilmer, WI)

JAPAN R. Japan, 11815, turned up here with General Service px at 1400 QRMing India on 11810. This outlet // 9505 and 15310, which were both too weak to hear. Have had much difficulty getting any RJ tx of late. (Bill McMullen, MI)

***KERGULEN ISLAND(???) Following a third-hand unconfirmed report on SCDXers on 2 May that a new FR 3 stn was testing on 15295 from 0900-1300, I checked 3 May and heard intermittent tone tests but no IDs till abruptly off at 1200. Nothing but Moscow there since. (Glenn Hauser, TN)

LEBANON R. Lebanon, 11965 NF, w/ excellent signals. AR 0200-0230; EG, 0230-0300; and SP after 0300. During EG px, heard rock and roll mx program, and ID as "This is Beirut." (Klein, FLA, w/ txn to Hauser, RCI DX Digest.) ***Stu says that this will be his 100th QSLed country. Congratulations. tba

PAKISTAN R. Pakistan, 17845, from #0200 w/ IS, EG ID. Then into px of chants and pop mx w/ woman anncr. Suspect this is their Indo tx. (Klein, FLA)

PERU Radio America, 9510, in SP 0910 w/ US and local pop mx. Very good sigs and often noted when BBC isn't here. (George, TEX)

PIRATE Harry Helms writes to say that his report of R. Rebelde should have been R. Abdala, another anti-Fidel clandestine. Harry reports that Abdala is probably in the Miami area, but that Rebelde is almost certainly in Cuba. He strongly suspects that a well-known Cuban ARO, who often puts a strong sig on top of several traffic nets that Harry works, is the operator of Rebelde. Though direction finding from western stns (or at least west of Cuba) might indicate that Rebelde is in Miami, following the path a bit farther puts the site in Oriente Province. (Harry Helms, SC)

ROMANIA Bucharest now uses 15255 w/ a strong signal. Heard in SP at 0000 on 13 May. (Zilmer, WI)

SOUTH AFRICA Re RSA: Despite a recent contrary report by Gerry Dexter, RSA's freqs of 5980, 9585, 9650, and 11900 are not heard well in Milwaukee area during their 2230-2320 tx. In fact reception is poor to very poor at times. Often, 9585 is the only freq worth listening to, and it is splashed by BBC 9590 (Sackville) and 9580 (Ascencion) at 2300. 9650 is covered by a het, 11900 is covered by the USSR on the same freq, and 5980 is poor because of bad condx that early on 49 M. (Zilmer, WI)

USA (PIRATE): VoVoyageur, 5850, in EG 0357-0433 14 May w/ guitar IS, opening w/ Queen's "We are the Champions," episode of "Bobby Bootlegger" serial at 0421. Gave phone number 0421 626-9906 at 0424 and asked for callers. I called and was on air at 0428. Super sigs and adio. Very friendly to DXers, which they all apparently are. (Harry Helms, Box 331, Fort Mill, SC 29715) ***the next reports on VoV also appeared last issue. tba *** VoV, 5850, from 0504-0538* 23 April. Annced location as one mile north of nowhere; mentioned B.B.I. network (variously Bootleg B'casters, Inc., and Brotherhood of Bootleggers, Inc.). Nighttime Melodies px, w/ Jazz Festival '78 selections. 2 young M anncrs said that reports should be sent to major clubs. "Talk to the Voice" at 0525, using (415) 282-0045. Aaron Hywarren got through. S/off w/ "Until we meet again . . ." at 0538. (Don Jensen, Kenosha, WI) +++ VoV noted at 0519 23 April t/in w/ Nighttime Melodies; mentioned Walcutt, Hauser and another DXer. Gave (415) 282-0045 as call-in number and read report on them from club bulletin. 0538* (Bill Whitacre, Lansing MI) +++ VoV noted 0424-0431*; had also been heard well during earlier tests. Asked if anyone had received latest FRENDX, and said that someone asked if they were connected w/ "Skull and Crossbones B'cast System." (Cf. April LN.) Several IDs to abrupt 0431*. Strong Sigs, but static QRN. (Pitt McNeill, DC) *** Harry Helms adds the following comments about VoV's use of Ma Bell lines: "You and I could call each other using both sides of [VoV's telco loop], which, like all the WDBX/WGOR loops, is assigned to a telco switching complex in the Gramercy Park section of Manhattan. But you are billed whenever you are switched onto a loop by long distance, even if no one is on the other side. The NYC pirates could "sit" on the loop for hours on end since it wasn't a toll call, but VoV is apparently in the midwest. Thus, I think that VoV is using a WATS line to sit on the loop, or else they're phone-phreaking. I doubt they're unaware that you are billed when calling a loop long-distance since they managed to figure out how to use one. ***On the other hand, they may be a bit surprised at their next phone bill . . . tba

VENEZUELA R. Carora, 4907, in SP 0305. Latin muzak, ads and ID. (tba)

ANARC-Freq. Recommendation Committee Report via Bob Zilmer, WI:

SWEDEN was asked to leave 11800 by ANARC-FRC and ITU-IFRB. Since Europeans are now being heard on 19m from 2200 on, it has been asked to try a 19m freq. Several freqs have been given to RS, but no decision has been made yet.

FINLAND R. Finland is now heard on 15265 in EG at 2300. ANARC-FRC recommended a 19m freq. To quote Bob, "I am glad to see them make the move. If we could get some of the European countries that have moved to the 19 mb to use their freqs for EG now we really will have accomplished our task." *** Txn, Bob. tba

That's it for now. My best to all, and I hope to hear from many more of you next time.

log report *section*

707 Loma Way----Santa Maria, CA 93454

4900-6199

STEVEN WISEBLOOD

B

- 4904.5 CHAD Radio Nationale Tchad: 0435+ Afro folk mx, tlk in lang by M (Godfrey).
4905 BRASIL Radio Relogio Federal: 0005-0020 time pipe every minute, ads (Brooker).
4910 ECUADOR Emis Gran Colombia: 0450 Latin vocal mx and SP ads (Pyatt). *1109 NA, theme mx, ID, freqs. fair (Jones-MS).
4910a VENEZUELA R. Carora: 0153-0206 TC's, U.S. pop mx, ads (Ponder).
4915 GHANA Acera Dom Svc.: 2300-2306* Religious mx and NA (Klein, Lobdell). 0613 EG nx to 0615, into M w/talk in local lang, s/off 0700* (Brookwell).
4915 KENYA VOK: 0300 IS, choral anthem, ID and talk by a M in SH (M. Taylor). (Osterman/
4920 ECUADOR R. Quito: 0050-0508* ID, LA vocals and ads, "Indian Love Call" (Noonan,/
4920 AUSTRALIA ABC: 1201-1210 Aussie and World nx, ID's, nice signal (Blaise).
4925 CAMEROON R. Yaounde: *0430-0510 IS, then M in FR w/ID, local flute mx (Jordan).
4925 BRASIL R. Drago do Mar: 0844-0900 Brazilian mx, several PT ID's (Howard-CA).
4930 DOMINICAN REPUBLIC R. Mil: 0235-0400* plenty of ID's, and LA mx (Brookwell, Ponder).
4932 NIGERIA NBC-Benin City: 2302 w/EG "Midnight Nx", ID, NA 2306*. Fair (Lobdell).
4934 KENYA VOK: 0300 EG w/IS, TC and mx. Fair-Poor (Hywarren). Also possibly noted by Bogel in Santa Barbara, definitely was Field's UNID in APRIL FRENCH! -SCW
4940 VENEZUELA R. Yaracuy: s/off varies from 0400-0415 w/NA, M & W in SP w/nx (Jordan, Brookwell). *0955 NA, band mx, ID, calls, freqs., Good-Exc. (Jones-MS).
4950 MALAYSIA-SARAWAK RMS: 1115-1135 EG tlk by W about childhood diseases (Hancock).
4950 SENEGAL Rdif du Senegal: 2345-0002* nonstop EZ mx, FR ID and nx on hr (Henion).
4960 VENEZUELA R. Sucre: 0300-0330 slow romantic ballads, ID's, M in SP (Jordan).
4980 VENEZUELA Ecos del Torbes: 0020-0145 LA mx, M in SP, ads, ID's (Jordan, Tannenwald).
4980 SWAZILAND R. SR (Truro): 0432-0459 light mx and talk in lang. (Osterman, Lobdell).
4985 BRASIL R. Brasil Central: 2330-0700 fast PT talk by M, ID, LA mx (M. Taylor, Brooker, Jordan, Lobdell).
4990 VENEZUELA R. Barquisimeto: 0200-0230 Venezuelan mx, guitar mx and ID's (Thompson).
4990 SOUTH AFRICA R. RSA: 0306-0340 EG nx and a program of pop mx (Bryan-CA, Noonan).
5010 CAMEROON R. Garoua: 0455 Afro chanting & mx, EG nx 0501-0510. Good. (Klein).
5015 ASIATIC SSR Vladivostok: *1200 IS and ID, into RS world nx (Gallagher).
5025 BRASIL R. Borboema: 0035-0200 PT talk, ID's and Brazilian mx (Tannenwald, Pyatt)
5030 INDONESIA RRI Biak: 1314 M & W in IN w/possible Radio drama, ID (Wallace-JAPAN).
5030 VENEZUELA R. Reloj Continente: 0125-0337 LA and rock mx, SP armts, ID as "La emisora de Portiva de Venezuela Radio Continente". Good (Tannenwald, Klein).
5033 ANGOLA Em Reg de Cabinda: 0640-0700 Afro chanting and PT talk, ID (Klein).
5038 CENTRAL AFRICAN EMPIRE Voix de l'Empire Centrafricaine: 2258 FR pop mx, ID by M, NA at 2303*. Fair (Lobdell, MA). 0615-0700 Afro chanting and folk mx (Klein).
5041 GUINEA BISSAU R. Dif Nationale: *0557-0702, s/on *0557 w/drum IS, ID by W in PT and into NA and mx pgm, W w/nx at 0700+ following drum IS (Hywarren, Brookwell).
5045 COOK ISLANDS RCI: *0430-0740 M w/talk in Lang. 0430+, percussion type mx.; Pgm of Island mx, EG at 0600 (Howard-CA, Bogel-CA).
5045 BRASIL Cultura do Para: 0035-0130 Brazilian mx, PT armts, full ID (Field, Tannenwald)
5045 BRASIL Rdif Presidente Prudente: 2320-2345 pop mx and several ID's, completely dominant on freq., time given nearly every minute. (Henion).
5055 SWAZILAND TWR: 0428 tune in w/light mx, EG ID at 0430, into religious pgm (Lobdell)
5130v CHINA RP: 1323 nx in RS, about "Asian Pacific Trade Conference", ID (Poppin).
5850*** USA (PIRATE) Voice of the Voyager: Noted now on Saturdays and Sundays *0500 w/ theme song "We will Rock You/We are the Champions", pop mx and call in show. Mail call quoting reports from DX bulletins. Since beginning DST in North America, s/on is at 0400 GMT! "Nighttime Melodies" pgm using the 1918 Edison phonograph. Phone numbers used include (212)626-9906, (415)282-0045, and 285-0045. Signs off with announcers in unison "May the spirit of the Voyager be with you always". Hand lettered QSL sheet postmarked Detroit. Brotherhood of Bootleggers Inc Radio Network. (Hauser, Hywarren, Ravenhorst, Whitacre, Utter NY, Blaise, Novello).
5875 HONDURAS Voice of Honduras: 0310-0350 ID, LA and U.S. rock mx (Hancock).
5930 CZECHOSLOVAKIA R. Prague: 0314 M w/nx in EG, cmtry and folk mx (Bryan-CA).
5950 UNID This one keeps trying to break thru het, maybe Arequps or Cuenca? (Jones-MS)
5960 CANADA RCI: 0330-0355* EG, nx, cmtry, sports roundup (McCants).
5960 ANTIGUA DW: 0530-0550, at s/off a pop song blasted on, then silence followed by muffled noises, sound of a door closing--then footsteps approaching an open mike! Then a squeaking chair, and by 0553 a M in EG w/nx, and cmtry! (Jordan 5/1).
5965 NIGERIA NBC-Jos: 2233-2306* EG pgm w/pop and folk mx, Armts in EG, ID and nx at 2300, pledge anthem 2305. Poor w/Brasil QRM. (Lobdell-MA, Overcamp-SC).

- 5970 PERU R. El Sol: 0200-0220 ID, contemporary-classical mx (Henion 5/4).
- 5975 GREAT BRITAIN BBC: 0100-0323 M 1st EG w/nx, South African relations (Eastman, Bryan).
- 5980 PERU R. Panamericana: 0636 LA mx, ballads, ads, jingles (Brookwell 4/19).
- 5990 JAPAN RJ: 0859 IS, EG ID, General Svce. and EG nx. Poor (Lobdell-MA). *0956-1030* IS and ID, EG nx, Yen vs. Dollar discussion, Asian nx (McCants, Blaize).
- 5990 ROMANIA R. Bucharest: 0400-0415 considerable QRM but understandable EG nx (Earhart).
- 5995 MALI Rdt. Nationale du Mali: 2350-0000* Afro mx, FR nx and NA at s/off (Henion 5/4).
- 6010 VENEZUELA R. Mil Cuarenta: 0820 Venezuelan mx, W ancr. Good. (Jones-MS).
- 6025 NIGERIA NBC-Enugu: 2233-2305* Afro mx and folk mx, EG amnts, ID (Lobdell-MA, Henion/Overcamp).
- 6025 PORTUGAL RP: 0500 EG ID, EG tlk by W, NA and s/off (Ethen 4/30).
- 6030 U.S.A. APRIS: 1000 relay of WWV announcement and hour tone! (Jones-MS).
- 6033 BOLIVIA R. Panamericana: 2350-0030 Andean mx followed by 1/2 hour of nx and cmntry. /
- 6035 BRASIL R. Globo: 2250 PT ID, sports tlk by M in PT (Lobdell-MA).
- 6045 JAVA RRI Jakarta: 1320 Network nx in IN, ID (Godfrey 4/6).
- 6065 COLOMBIA R. Super: 0810-0950 SP nx, address and phone # of stn, LA mx (Blaize, /
- 6065 SPAIN REE: 0120-0200 EG nx, cmntry, "Spain Today", //11880 (Fraser, McKinney).
- 6070 THAILAND R.T.: 1320 M in Thai w/talk (Wallace-JAPAN) Thanks for your reports -SCW
- 6080 BELGIUM BRT: *0015-0100* "Brussels Calling", EG nx and topics (5 reporters).
- 6082 PERU R. Nacional: 1042 Peruvian mx, SP amnts. DW(Carib) QRM on 6085 (Jones-MS).
- 6090 LUXEMBOURG RL: 0045-0150 EG nx, ads and top rock mx, "Radio 208" ID's, TC's and Jingles: "R. Slويد Gold, 208". (BrookerM McKinney, Sapoznikow, Roberts-MAN).
- 6090 NIGERIA R. Kaduna: 2228-2316 1/2 Afro mx, W in Hausa, EG ID's, EG nx at 2300, then ten minute islamic(?) chant (Henion, Osterman, Overcamp).
- 6100 MALTA Cyclops-DW: 0341 M & W in GM, ID, M in GM w/nx (Bryan-CA).
- 6105 NEW ZEALAND RNZ: 0958 pop and vocal mx, EG amnts (Jones-MS).
- 6115 MEXICO XEUDS R. Universidad de Sonora: 1545-1615 Classical mx and ID's (Thompson).
- 6115 COLOMBIA La Voz del Llano: 2250-0210 LA mx, amnts by M in SP, ID's (Henion, Ethen, M. Taylor). 0951 Many ID's by M, LA mx, Fair. (Lobdell-MA).
- 6120 ARGENTINA R. El Mundo: 0935 SP nx (Jones-MS).
- 6130 GHANA R. Ghana: 2248 EG nx and sportsM ID and TC's, "Evening Shadows" mx (Novello).
- 6135 SOCIETY ISLANDS FR3 Tahiti: 0450+ Tahitian mx, M in FR w/nx, //11825 (Godfrey).
- 6135 CHILE R. Univ de Concepcion: 1104 W w/ID asking for reports (Jones-MS).
- 6140 COLOMBIA R. Melodia-Bogota: 0535-1043 LA mx, ID's, M in SP w/amnts (6 reporters!).
- 6145 WEST GERMANY DW: 0349 M in GM w/nx, ID, and topics (Bryan-CA).
- 6150 COLOMBIA La Voz del Huila-Neiva: 0800-0934 M in SP, chimes, vocal mx (Lobdell, George)
- 6160 COLOMBIA Em Nueva Granada: 0831-0900 SP amnts, SP nx and LA vocals, also gave ID(?) as "R. Sucesos, RSM, en Colombia". (Klein, Osterman).
- 6165 MEXICO XEW-La Voz de la America Latina: 1059-1210 M & W in SP w/nx (Jones, Field).
- 6170 VENEZUELA R. Nacional: *1000 NA, ID, and calls, Campesinos pgm (Jones-MS).
- 6175 MALAYSIA RM Kuala Lumpur: 1332 M in lang. w/nx, ID's (Godfrey).
- 6175 PERU R. Tawantisuyu: ID, Call letters given by W, Peruvian mx (Jones-MS).
- 6190 CHILE R. Nacional: 1103 ID, TC, SP National nx, QRM YV. (Jones-MS).
- 6190 VENEZUELA Ecos Del Torbeas: *0958-1005 NA at s/on followed by ID, LA mx (Blaize).
- 6195 PERU R. Cuzco: 0952 ID, Peruvian mx (Jones-MS).
- Some fairly good Latin American and African catches during April-early May. European-Asian reception very poor generally, and most likely will not improve until at least late July. Only a page and a half! I bet the LR-D editor still has 5 pages! hi! Of course a few months from now, I'll probably be back to 4 or 5 pages myself. Solar Cycle is rising and general improvement noted here 11MHz on up. Well, 73's Steve.

SPOTLIGHT ON AN ENLIGHTENED COMMUNITY!

The following first appeared in the Scientific American magazine dated May 1928. It was reprinted in the issue of May 1978 and contributed by Assistant Publisher Jon Cohen, Willingboro, NJ.

"Good radio programs are so frequently spoiled by man-made static that the town of Fairfield, Iowa, has recently passed a city ordinance that makes it a punishable offense to create interference with radio reception. A fine of \$100 or 30 days in jail has been set as the punishment for violation of the ordinance, the text of which reads: 'It shall be unlawful for any person to operate any instrument, device or machine of any kind whatsoever the operation of which shall cause electrical interference with radio reception, within the city limits of the City of Fairfield, Iowa, between the hours of 12 o'clock noon and 12 o'clock midnight, on any date after taking effect of this ordinance, save and excepting only such as may be necessary in making X-ray pictures or examinations in emergency cases of injury.'"

log report

JUNE 1978

section

6200-11699

**TOM GAVARAS**

16920 17th Avenue North, Wayzata, Minnesota 55391

* What a week! Finals just ended this morning and this column is due in Pennsylvania in three days!!! Just a reminder to the new members that loggings for the four Log Report Sections should be sent to our Distribution Editor: Greg Ravenhorst, Rural Route, Hollandale, Minnesota 56045. His deadline is the 12th of the month. On to the loggings..... *

- 6230 EGYPT R. Cairo; 0230-0330 English ID, News on Israel/Egypt, mailbag & Nature in Egypt program (Eastman 4/10, Smallwood 5/7, Jordan 4/30).
- 6380 MONGOLIA R. Ulan Bator; 1221 English news program read by a man (Wallace 4/4).
- 7050 EGYPT R. Cairo; 0328 Arabic with Middle Eastern music w/male announcer (Godfrey 5/2).
- 7065 ALBANIA R. Tirana; *0500-0510 IS, S/on in French w/"ici Tirana" into news and politician country programs (Jordan 4/12).
- 7080v CLANDESTINE R. Rebelde; 0355 Spanish talking by man w/anti-Castro talk, anti-troops in Angola, etc. SINPO:55555 (Klein 4/14). 0358 Spanish heard here thanks to tip from Stu Klein in Florida 4/14 from 0358 tune in. Commentary on Venezuela, Ethiopia & Cuba by "Comandante David," going into 2-way ham contacts. Blamed music on 7075 on Cuban government jamming, tho it was Radio Cairo. QSY to 7080; 0443 claims to be in Oriente, as usual. The same speaker's name certainly sounded like "Abito" on Hendel's tape as previously reported, but I agree with Hanson/SPEEDX that he is saying "David". Strong signal (Hauser).
- 7105 ASCENSION ISLAND BBC; 0257 English ID, Time pips, World News, etc. (Thompson 5/3). 0400 English ID & News on Rhodesia, etc. (Bryan 4/16).
- 7105 MONACO TMR; 0630-0900 English w/Music Box Interval Signal, ID, Back to Bible, News, Radio Bible Class, etc. (Smallwood 5/10).
- 7105 USSR R. Moscow; 0310 English talk on Soviet Cosmonauts (Clark 4/12).
- 7120 ALBANIA R. Peking; 0300 English political talk, economic reports on industrial agriculture production in China, etc. (Jordan 4/23, Hywarren).
- 7145 POLAND Polish Radio; 0600 English news, music & lightning static (hi) (Gallagher 5/2).
- 7150 USSR R. Moscow; *2300 English news (anti-West) program (Jordan 4/18). 0030 English news and commentary programs (Maxfield 4/3).
- 7075 USSR R. Moscow; 0222 English with "The Soviet Way of Life" program (Hamilton 3/29).
- 7205 USSR R. Moscow; *2300 English news, Soviet Press program, etc. (Jordan 4/18).
- 7210 GERMANY (WEST) DW; 0120 English news, features, pop music (Frajer 4/29).
- 7215 BRUNEI Radio Brunei; 1040 Chinese/Unid. language talk, time pips, Western 30's dance tunes (Osterman 4/18). 1309 English news, music and commentary by a man (Godfrey 4/21). 1330 classical music, time, freq & National Anthem at 1430*. (McDonald 4/20) -English? (Editor).
- 7225 PHILIPPINES FEBC; 1054 Japanese religious music & talk (Brookwell 4/19). 1230 Chinese talk, ID's, vocals, etc. (Thompson 5/5).
- 7225 UNIDENTIFIED; 1452* Lang w/Interval Signal, talk by man & woman (barely audible with ARO interference (Godfrey 5/1). -Maybe FEBC? See above logging (Editor)-
- 7235 GERMANY (WEST) DW; 0405 Arabic news and commentary program (Schwayri 4/6).
- 7245 ANGOLA R. Nacional; 0517 Portuguese talking & African pop tunes (Godfrey 4/21).
- 7255 GERMANY (WEST) R. Liberty; 0040 time/in with trumpet IS, OM Identification in an unidentified language (Czech/Slovak) into news (Hywarren).
- 7275 NIGERIA V. of Nigeria; 0530 English with Drum music, talk, etc. (Gallagher 5/2).
- 7280 LIBERIA VOA; 0315 African Safari in English, news, music, etc. (Klein, Thompson).
- 7295 MALAYSIA R. Malaysia; 1400 English news & music (I left my heart in San Francisco), etc. (Grenier 5/7).
- 7300 ALBANIA R. Tirana; 0140 English with news by a man (Maxfield 4/29).
- 7325 ENGLAND BBC; 0345 Arabic news and commentary. Good signal (Schwayri 4/6).
- 7345 CZECHOSLOVAKIA R. Prague; 0300 English news, commentary, music, etc. (Maxfield 4/6, Clark 4/12).
- 7417 VIETNAM VOV (Hanoi); Vietnamese commentary program (Poppin 3/17).
- 7500 AUSTRALIA VNG Time Station; 1145 Time pips, English ID & frequencies (Valko 4/4). 1230 English time pips & English ID (Onken 4/15).
- 7600 ECUADOR HD210A Time Station; 0043 Time pips & ID/Time in Spanish (Valko 4/3).
- 9022 IRAN VOI; 0040 Farsi music and talking (Thompson 5/5).
- 9360 SPAIN Spanish Foreign Radio; 0045 ID, Spanish talk & orchestra music (Thompson 5/3).
- 9410 ENGLAND BBC; 0422 English talk on Farmers, Cuban forces in Ethiopia, etc. (Ethen 4/30, Bryan 4/16).

- 9420 KOREA (NORTH) R. Pyongyang #1200 Spanish news and commentary pgm (Maxfield 4/24).
- 9435 ISRAEL IBA; 2340 English commentary program (Swanson 4/13).
- 9475 EGYPT R. Cairo; 0225-0317 English news, ID, frequencies, commentary, etc. (Klein 5/5, Maxfield 4/8, Ethen 4/30). 0425 Arabic chanting (Bryan 4/16).
- 9500 LIBYA PRB; 2232-2236 Arabic speech, clapping and Arabic music (Walko 4/6).
- 9505 DOMINICAN REPUBLIC RTV Dominicana; 2115 Spanish ID & music (Taylor 5/7, Baldwin).
- 9505 JAPAN R. Japan; 1303 English news program (Osterman 5/7).
- 9505 PORTUGAL(?) RFE; *0400 IS, Bulgarian ID "Tuke R. Svoboda Europe." Unjammed (Klein).
- 9510 AUSTRALIA R. Australia; 1200 English news to Papua New Guinea//9540 (Zilmer 4/18).
- 9510 PERU R. America; 0910 Spanish talk w/Peruvian & American pop music (George 4/30).
- 9515 TURKEY VOT; 2215 English with a musical Request Program (Earhart 4/11).
- 9520 PAPUA NEW GUINEA NBC; 0723 English Yamaha ads, pop mx, etc. (Wilkinson, Utter).
- 9525 KOREA (SOUTH) R. Korea; 1000 English s/on to Europe//9580 (Lobdell 4/22).
- 9525 POLAND Polish Radio; 0215 English mailbag ID to N. America. Polish transmission at 0227. Fair signal (Lobdell 4/22).
- 9535 CANADA RCI; 0304 News, talk on fighter jets, etc. (Ethen 4/30).
- 9540 AUSTRALIA R. Australia (Shepparton); 1100 English news program (Maxfield 4/2). 1130 English ID, Australian news and pop music (Yacono 5/2).
- 9550 NORWAY R. Norway; *0255 IS Norwegian Identification & talk (Ethen 4/30). 2345 Norwegian with Musical program//9605 & 6180 (Brown 5/6).
- 9560 ECUADOR HCJB; 0100 English with Songtimes program (McCants). 0230 DX Party Line (Klein 4/25).
- 9570 QATAR QBS; 1357 Arabic ID, Middle Eastern music (Godfrey 4/6).
- 9575 CYPRUS CBC; 2213 IS, Greek ID & News on Egypt/Israel. Good signal (Lobdell 4/29).
- 9575 INDIA AIR; 1335 Vernaculars with Indian music (Godfrey 4/21).
- 9580 AUSTRALIA R. Australia (Shepparton); 1130 English Sports Profile, Miss Australia Beauty contest, world & Australian news, etc. (Fraser 4/8, Blaize 4/11).
- 9585 BRAZIL R. Excelsior; 2215 Excited announcer describing football game in Portuguese. Strong signal (Earhart 5/1).
- 9585 HUNGARY R. Budapest; 0200 English news and commentary program (Maxfield 4/8).
- 9585 SOUTH AFRICA RSA; *2230-2320* English Panorama, Talking Point, News (Fraser 4/21, Jordan 4/18).
- 9590nf CANADA BBC; 2300 (ex 9510) Obliterating R. Sweden (Hauser 5/2).
- 9590 NETHERLAND ANTILLES R. Nederland; *0230-0320* English news, DX Juke Box (Klein 5/5).
- 9590 SWEDEN R. Sweden; 0030-0100 English Saturday Show, Sweden Calling Daxers, Panorama. (Ethen 4/26, Eastman, Bogel 4/22).
- 9600 USSR R. Kiev; 0030 English news and commentary (Zilmer 4/21).
- 9605 SWEDEN R. Sweden; 0328 ID's in various languages. Not audible after 0330 after DW signed on (Field 4/23).
- 9605 VATICAN STATE Vatican Radio; *0030 IS, Bells, Spanish ID & Religious news (Klein 5/5). *0100-0115* IS, English religious program into French at 0115 (Brooks 5/1).
- 9610 AUSTRALIA ABC (Perth); 1045 English with rock music, TC, News, etc. (Klein 4/18). 1115 English program on poverty (Grenier 4/29).
- 9620t UNITED ARAB EMIRATES V. of UAE; 1427* Arabic type orchestra music bursting through over very strong Het and RFE. The mx was heard only during a two week period of listing (Godfrey 4/6).
- 9620 YUGOSLAVIA R. Yugoslavia; *2200-2212* English news with mention of Tito's birthday, cantry, etc. (Earhart 4/11, Jorday 4/18, Brown 5/6).
- 9625 SPAIN CBC NS; 0000 English news program (Swanson 4/8).
- 9630 FRANCE Spanish Foreign Radio; 0435 Spanish news about Czechoslovak President (Bryan).
- 9635 BRAZIL R. Aparecida; Portuguese 0924 with talking & accordian music (Osterman 4/27).
- 9645 NORWAY R. Norway; 0200-0230 English Norway this Week, Jazz mx, etc. (Mann, Yacono).
- 9650 AUSTRIA ORF; *0200 German news and commentary. Good signal (Klein 5/5).
- 9650nf SOUTH AFRICA RSA; 2230-2320 English news, etc//5980, 9585, 11900 (Zilmer 5/7).
- 9655 COLOMBIA R. Nacional; 0500 s/off Spanish announcements & National Anthem (Brookwell).
- 9655 GREECE VOG; *2300 Interval Signal, National Anthem & Greek ID (Brown 4/27).
- 9670 AUSTRALIA R. Australia (Shepparton); 1430 English news program (Swanson 4/14).
- 9680 USSR R. Moscow; 0220 English news, commentary and music (Ponder 4/27).
- 9685 ALGERIA RTVA; 1855 Arabic chanting, music & talking (Hamilton 4/1).
- 9685 CUBA RHC; 0400 English with typical propaganda, talk on how the Rosenbergs were Framed (Blaize 4/24).
- 9690 ARGENTINA RAE; 0350 English ID, ballads, chimes, Interval Signal into Spanish program at 0357 (Earhart 4/12).
- 9690nf SWEDEN R. Sweden; 2330* English DX program, mailbag//11800 (Maxfield, Zilmer).
- 9700 USSR R. Moscow; 0155 English news, music & commentary (Ponder 4/27).
- 9710 ITALY RAI; 2320 Italian talk and easy listening music (Earhart 5/26).
- 9710 SOUTH AFRICA SABC; 1130 English talk, ads, drama//11935 (Zilmer 4/24).
- 9715 HOLLAND R. Norderland; 0830 English news, focus, etc. (McKinney 4/28). 2150 English His & Hers program (Greener 4/11).

- 9725 SWITZERLAND SBC; *0145-0215* English Dateline, cmntry//6135,11715,15305 (all good) (Fraser 4/28). 0447 IS, English ID, Swiss Merry-Go-Round (E.Hoffmann, Bryan).
- 9730 GERMANY (EAST) RRI; 0100 English news & cmntry (Jordan 4/23).
- 9735 GERMANY (WEST) DM; 0452 German talk & mx (Bryan) -I have Malta listed (editor)-
- 9740 LIBERIA VOA; 0456 English Breakfast show program (Bryan 4/16).
- 9745 IRAQ R. Baghdad; 0105 Arabic music and singing (Taylor 5/9). 2142 English news which was all critical of USA, CIA & Israel (Jones 5/1, Greenes 4/11).
- 9745 SWEDEN R. Sweden; 0245 English with the Saturday Show (Hywarren).
- 9745 USSR R. Moscow; 0400 Arabic news and commentary (Schwayri 4/6).
- 9755 ALBANIA R. Tirana; 0000 English news & commentary (C.Sherman 4/29).
- 9755 FINLAND R. Finland; 2325 English and Finnish program (Earhart 4/26).
- 9770 AUSTRIA ORF; 0130 English news, weather outlook, sports review, etc. (Conrad 5/9). 0300 Short Wave Panorama program in English. Heavy QRM (Gavaras 5/21).
- 9780 CHINA R. Peking; 0305 English ID, News and many mentions of the Neutron Bomb (Hancock)
- 9780 USSR R. Moscow; 0550 English with Moscow Mailbag (Nooan 3/18).
- 9780 YEMEN ARAB REPUBLIC R. San'a; 0259 IS, Arabic ID & chanting (Klein 5/2). 1940-2001* Arabic talking with several mentions of Arabiya. Off with National Anthem (Klein 4/1).
- 9800 USSR R. Kiev; 0054 English mailbag program (MacKay 4/23). 0320 English pgm (Frajer).
- 9805 EGYPT R. Cairo; 2245-2344 English news, ID, Arabic and rock music (MacKay, Schwayri).
- 9815 ISRAEL IBA; 2245 English answered letters from listeners. Also announced results of NASWA's survey of IBA listeners (Eastman 4/16).
- 9825 ENGLAND BBC; *0330 Swahili news program (Frajer 5/7). 0505 Arabic news about Rhodesia (Bryan 4/16).
- 9850 EGYPT R. Cairo; 0415-0511 Arabic Voice of the Arabs program, chanting, music, talking, etc. (Jordan 4/12, Bryan 4/26).
- 9895 HOLLAND R. Nederland; 2205 English His & Hers program (McCants).
- 9912 INDIA AIR; 2215 English talk about New Delhi (Greenes 4/11).
- 9915 ENGLAND BBC; 0310 English news about Britain (Bogal 4/29). 0514 French ID, talk and English language lessons (Bryan 4/16). 2315 English Letters from America (Fraser).
- 9940 CHINA R. Peking; 1150-1156* talk in language w/abrupt s/off (Valko 4/21).
- 9977 KOREA (NORTH) R. Pyongyang; 1025 Russian talking and music (Blaise 4/26).
- 10000 HAWAII WHVE Time Stations-0640 Time pips with ID & Time by YL (Ponder 4/17).
- 10040 VIETNAM VOV (Hanoi); 1100-1230 Vietnamese ID, music, etc (Jordan 4/21).
- 10060t VIETNAM VOV (Hanoi); 1025 Vietnamese with oriental music (Blaise 4/26).
- 11630 CHINA R. Peking; 0046 Portugese SSB (Feeder?) program (Brookwell 4/7).
- 11630 EGYPT R. Cairo; 0524 Arabic news program (Bryan 4/16). 1925 Arabic talk and music (Henion 5/4).
- 1164Onf ISRAEL IBA; 2200 Hebrew Home Service program//15545 (Zilmer 5/8).
- 11650 CHINA R. Peking; 1254 English ID & talk on agriculture (Brookwell 4/16).
- 11655 ISRAEL IBA; 0528 French talk and s/off (Bryan 4/16). *2000-2030* Special Sabbath Passover program, announcer pointed out that although it was being transmitted on the Sabbath, it had been produced earlier and taped (Henion 4/21). 2230 English IBA resumed programming and led with news story that an 11 day strike by journalists had just ended. This explains the tone tests we had been hearing on IBA frequencies. (Hauser 4/12).
- 11672 PAKISTAN R. Pakistan; 1350 Urdu(?) talk, ID, Indian Sub-Cont. music (Godfrey 4/19).
- 11683a SAUDI ARABIA BSKSA; 1955-2100* Arabic news, music, mentions of Riyad & Jidda. abruptly off at 2100 (Henion 5/4).
- 11700 USSR R. Moscow; 2145 English ID & Easy Listening mx. What site? (Ravenhorst 4/23).
- 11700 DOMINICAN REPUBLIC R. Clarin; 1505 Spanish 'la major musica de la Republica Dominicana (Henion 5/4). 2300 English with Rudy Espinal. Back after several days absence due to filament failure in transmitter (Klein 4/27). 2300 English. R. Clarin was off the air again for a few days in late April. Upon returning, Rudy Espinal explained that as a private enterprise, they couldn't afford to have a complete stock of spare parts, so when something goes wrong, they must go off the air until it can be flown in from the USA. Costs them about \$5000 per month to run their international SW service. Will be on 24 hours in Spanish with some English segments, 15-17 May covering the Dominican presidential election. Else-when, as of 2 May, the "This is Santo Domingo" English hour is on the air at 3 new times: 1200, 2000 (replacing 2130), 0300 plus the present 2300. Rudy gave conflicting times because of confusion in local/GMT conversion, so not all of these may be right. On 4/8 the first edition of R. Clarin's new DX program was aired GMT Sunday (tho he refers to it as Saturday) at 0000-0030. Asks for listeners' guidance on how the "Clarin DX" program should be handled. In this one, he tuned a studio receiver around the 31 meter band and read some sale ads from Feb SPEEDX. Also said they hope to begin a Spanish DX program in a couple of months. I'll be sending him a monthly tape called "Review of International Broadcasting of the Air" which includes excerpts of programming comments from RIB, and interludes of ethnic music from different parts of the world. I am asking that it be scheduled on this program the last Saturday of the month. Thanks to Rudy for offering all this time for the benefit of DX & SWL. (Hauser). / Until July, 73, *Don*

log report section

11701 & ABOVE



DAVID WALCUTT

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JUNE, 1978

- 11705 SWEDEN RS; 0040-0105 PT/SW, surprised to find Sweden clear when tuning for V. of Chile (Earhart 4/24); 0230 EG, nx, mailbag; echo; //9695 (Zimer 5/8).
- 11709.7 ARGENTINA RAE; 2300-2355* EG, cmntry & music (5 reporters).
- 11725 INDIA AIR; 1135-1140* EG, State & Development, //11855 (Zilmer 4/24).
- 11730 GREECE VOG; 0215-0224 EG, world news; very good (Mann 4/13).
- 11730 UZBEK SSR R. Tashkent; *1200 EG, with IS followed by world nx and cmntry, then ID by M; poor (Yacono-NY 4/27).
- 11735 USSR RM; 2320-0008 EG, mx & cmntry (Earhart 4/20, Ponder 4/14).
- 11750 BULGARIA-Plovdiv R. Moscow (relay); 2350-0030 EG to N.Am., DX news, "Moscow Mailbag", QRM from co-channel BBC (Brown 5/7). Site is per Legge in UHN 13 -ed. R. Sofia; 0438 EG, v.good (Novello 4/26).
- 11755 SEYCHELLES FEBA; *0305 with IS and usual anmts, then into Farsi pgm, still on despite political coup in Seychelles; poor (Osterman 5/2); 0325-0340 FS, Iranian mx & Tehran address given (Mackay 4/19).
- 11770 NIGERIA VON; 0635 EG w/ID, world nx; fair (Ethem 4/30); 0636 EG, nx and "Weekend Magazine" (Grenier 5/7).
- 11775 AUSTRALIA RA-Carnarvon; 1458 EG w/fqy info; NF, ex-11705? (Hauser 4/16); 1715-1725 EG, nx & features, review of press on future of Irian Jaya; QRM but good; NF? (Bogel*CA 4/26).
- 11780 BRAZIL R. Nacional de Brasilia; 0100-0410 PT, vocal, guitar & inst mx (Jordan 4/26, Thompson 4/13, Clark 4/12).
- 11790 AUSTRALIA RA; 0930-1138 EG, pop mx, sports results, markets for dried fish (McKinney nd, Zilmer 5/6, Earhart 4/11).
- 11790 INDONESIA VOI; *1300 FR, ID & nx, v. weak (Brown 4/9); 1400 EG, Far East news by M with accent almost too strong to understand (Gallagher 4/6); 1550 SP, mentions of many S.Am. countries, many ID's and at 1557 "Love Ambon" into IN & Islamic chants (Godfrey 4/8).
- 11790 USSR RSP&P; 1315 EG, cmntry (Swanson 4/9); 0043-0100 EG, "R. Kiev" on neutron bomb issue & S. Korean airline intrusion (Jordan 4/26).
- 11795 ANTIGUA DW relay; 0030-0100 GM, w/IS. ID; vocals (Thompson 5/4).
- 11800 AUSTRALIA RA; 0705 EG to Papua N.G., rock; f/p (Klein 4/16).
- 11800 FINLAND RF; 2300 EG, nx, wx, "Made in Finland" (Zilmer 5/8).
- 11800 ITALY RAI; 0100 EG, nx on Red Brigade; excellent (Maxfield 4/29).
- 11800 SRI LANKA SLBC; 1352+ Hindi, India mx with ads, jingles and ID (Godfrey 4/8).
- *11800 SUDAN R. Omdurman; 0636-0701 AR/EG, pgm of Arab mx with W ancr; heard total of 5 ID's including 3 in EG: "R. Omdurman", "R. Sudan"; and, "Sudan Calling" (!) after IS at 0700; nx (Godfrey 4/8).
- 11800NF SWEDEN RS; 2300 EG, nx, lbx (Zilmer 5/7). Fighting with Finland -ed.
- 11800 USSR 0400 AR with IS, ID's, nx (Brown 4/15).
- 11805 BRAZIL 0044 PT, 2 excited M, many ID's; good (Novello 5/3).
- 11810 ANTIGUA DW; *1330 GM, w/ID & world nx; good (Yacono-NY 4/29).
- 11810 INDIA AIR; 1400-1500 EG, about movies in India (Doyle 4/16).
- 11825 LEBANON RL; 0227 AR into 0230-0300 EG "Special pgm to North America"; into 0300 SP (Hywarren, Lobdell 4/21, Wilkinson 4/6, Doyle 4/24, Phillips 4/9, Yacono 4/30). Now moved to 11965 -ed.
- 11825 SOCIETY IS. R. Tahiti; 0530 TT/ER, jazz & rock (McDonald 5/7).
- 11830 CHINA V. of the Malayan Revolution; 1522 EG, comments on heavy rain & rice growing; 1526 s/off (Poppin 4/11).
- 11830 SPAIN REE; 0112 EG, about a Spanish poet; only night Spain here; strong (Mackay 4/25); 0130-0230 EG, about frozen food business; they were off fqy as they ann'd 11880 (Fraser 4/25).
- 11835NF AUSTRALIA RA; 0705 EG, best 25 meter fqy of RA (Mackay 4/16).
- 11835 SRI LANKA SLBC; 1045 EG w/ID, time pips, pop mx, "Power of the Word" pgm; excellent till 1130*; best ever in 10 years (Lobdell 4/13).
- 11840 SEYCHELLES FEBA; *0340 AR, rel. pgm, this is the "HCJB?" in May "D" Section FRENDX (Mackay 4/19).
- 11840 KOREA N. R. Pyongyang; 0740 EG, w/ID, song: "Peoples' Paradise" (Wallace-JAPAN 4/4).

- 11845 VATICAN VR; *0100 EG to N.Am., Vatican nx (5 reporters).
 11850 NEW ZEALAND RNZ; 0327-0337 EG, radio play, ID, g (Bogel 5/2); 0616-0710 EG/Maori, EZ mx, nx (Wilkinson 4/21, George-TX 4/19).
 11855 INDIA AIR; 1135-1140* EG, "State & Development", //11725 (Zilmer 4/24).
 11890 GERMANY E. RBI; 0330-0400 EG to N.Am., nx, mx, f; 0400-0430 GM, interviews (Lobdell 4/29, Ethen 4/30, Clark 4/10, Brown 4/9).
 11910 HUNGARY R. Budapest; 0200+ EG, 0230+HG, 0300+ EG, etc. (10 reports).
 11925v IRAQ R. Baghdad; 0259 IS, ID into EG to N.Am., nx; ex-11905 with bad het (Lobdell 4/30); 0310-0320 EG, lovely inst mx, tlk on S.Afr. & Namibia; ID; more mx & singing (Bogel 4/25); 0315 EG, cmntry, pgm of Arabic mx; bad het (Novello 5/5); 0325 EG, ID, Arabic mx, "Arabic By Radio"; strong, but bad het & poor modulation (Mackay 4/25).
 11935 SOUTH AFRICA Springbok Radio (SABC); 1130 EG/AK, tlk, mx, ads, drama; poor; //9710 (Zilmer 4/24).
 11940 ROMANIA R. Bucharest; 0130 EG, nx & cmntry; exc (Maxfield 4/29); 0214 EG, mx, some "folk music" (McMullen 5/6); 0416-0424 EG, rules & certificates for reporting to RB's listeners' club; QRM from 11935 Portugal (Earhart 4/16); 0428* EG, listeners' club (Ethen 4/30).
 11940 SINGAPORE RS; 1532-1603 EG, nx, ID, TC and into pgm of pop songs (Roberts 4/16); 1540 EG, show "Soothing Sounds" (Ethen 4/26); 1610-1630 EG, piano mx, vocals, orch mx (Thompson-NM 5/2).
 11945 LIBERIA ELWA; *0630 EG, FR, AR w/ID's, IS; into Arabic program; fair (Ethen 4/30).
 11950 AUSTRALIA RA; 1000-1130 EG, //9580 (Sherman 4/28, Zilmer 4/24).
 11955 ANGOLA R. Nacional; 0605 PT, heard mixing with BBC; nx into "Congo Jazz"; //9535 but very poor (Hywarren nd).
 11955 PHILIPPINES R. Veritas-Asia; 1400-1430 EG w/ID, rel cmnt, cmntry on Philippines, ID, pop mx pgm, nx (Onken 4/16); 1430 EG, world nx headlines; good (Doyle 4/16); 1440 EG, Phil. culture (Grenier 4/30).
 11955 UK BBC W.S.; 0605 to Aust/NZ, Cyrus Vance & Rhodesians (Bryan 4/16).
 11965 KOREA S. R. Korea; 1130-1200 EG, cmnt, f; //9650 (Zilmer 4/26).
 11965NF LEBANON R. Lebanon; 0230 EG, ex-11825; after RCI tip (DLW 5/23).
 12035 VIETNAM R. Hanoi; 1128 SP, about Cuba with Castro speech -- thought I had Cuba out of band; fair (Brookwell 4/19).
 *12070 MONGOLIA R. Ulan Bator; *1220-1240 EG w/IS, ID, nx, flute mx & ID at 1230; cmntry; poor with QRM; tnx to G. Sapoznikow for this tip (Roberts 4/10); 1220-1235 IS, ID: "This is the... service of Ulan Bator broadcasting..." and into news; very weak signal; heard after tip from RCI DX Digest program the day before (Sapoznikow 4/10).
 12070 USSR RM; 0158-0214 SP to Chile; M&W talk of Chile, political cmnt (Hamilton 4/7). I think jamming here is from Chile -ed.
 12085 KUWAIT RK; 1818 musical pgm & news; good (Field 4/22).
 12175 ICELAND V. of Iceland (not Reykjavik R.-ed.); 1230 Icelandic, W&M tlk, light music; ute QRM (Birkhauser 4/30).
 13848.6 COLOMBIA R. Nacional; noted here every night at about 0100-0200 in SP with symphony mx, nx, and many ID's, //15335 (Hywarren). Fuy:DLW
 14835h COLOMBIA R. Colosal; 3x4945; 0343 SP, "Desfile de Exitos"; ID's; some SSB QRM, probably MARS to low side of 14835 (Hauser 4/26).
 15008.8 VIETNAM VOV; 2050-2130* EG, Viet story, mx, ID, mulberry & silk worm farming (Marable-ITALY 4/3); 2115 EG, discussion of juvenile delinquent's visit home on good behavior; NA (Byron-NY 4/27).
 15045 CHINA R. Peking; 1635-1655 EG to E.&S.E. Africa; g (Bogel 4/28).
 15104a GRENADA RG; 1950-2010 EG to Europe w/calypso, ads, into sports pgm (Miller 5/2); 2030 EG, local program (Doyle 4/16).
 15105 FINLAND RF; 1310-1430 EG w/extended sked Sunday (5 reporters).
 15105 ISRAEL IBA; *0400 HB, w/IS, prayer, and news (Klein 4/29).
 15105 JAPAN NHK; 2200-2215 EG, with IS, ID, & news (Miller 5/2).
 15115 UZBEK SSR R. Tashkent; 1205-1230* EG, nx, cmntry on constitution of Uzbek SSR (Brooker 4/20).
 15120 SRI LANKA SLBC; 1026 EG with IS, ID, pop mx pgm; poor; //11835 & 17850 (Lobdell 4/20); 1115-1130 EG, //11835 which was better (Sherman 4/20); 1925-1945* EG, mx request pgm, ID: "You are listening to our daily test transmission from S.L.B.C." (Howard-CA 4/9).
 15135 BULGARIA R. Sofia; 2130 EG with IS, ID, sked (Taylor 5/8).
 15145 BRAZIL R. Jornal do Comercio; 0137 PT, two M with rapid-fire soccer comment, elec. mx effects; frequent ID's as "R. Jornal"; good (Novello 5/5); 0122-0224 PT, Pernambuco vs. Acre (Ponder 4/20).
 15150 ANTIGUA DW relay; 1215 IS, ID with site & off (Gallagher 4/6); 1330 GM, s/on and news (Swanson 4/12).
 15150 CANADA RCI; 2135 EG, "Bonsoir Africa" (Grenier 4/23).

- 15149.7 CHILE VOC; 2300* SP, giving ID on 15130 instead (Barhart 4/15).
 Letely, tho, they seem to have moved the powerful 15130 xmtr to
 15150 instead, and I have not noticed them on 11705 or 15130 -ed.
 1130-1150 EG, tlk on Chilean gov't by W (Miller 5/3).
- 15160 HUNGARY R. Budapest; 1200-1215 EG to Europe with nx, cmntry etc.;
 QRM from Denmark on 15165 (Miller 5/2). From Denmark!! -ed.
- 15175 NORWAY RN; 1600 EG, M&W ancrs with nx about Norway (Jakl 5/14);
 2215-2230* EG, "Norway This Week" (Miller 4/30). EG Sundays only -ed.
- 15176.9 ALGERIA? 0457 AR, M.E. mx until abrupt 0532*; fqy 15177.2 at this
 (v) hour. 2000 AR w/ME and N.Afr. mx; 2038 FR pgm expressing "complete
 solidarity" with the Zaire invaders; Arabic at 2100 with more N.Afr.
 mx; drifty signal around 15176.9 (DLW 5/21).
- 15190 CONGO RTVC; 2110 FR, mx, until 2130 EG with "The news of the week"
 (Wallace-JAPAN 4/15); 2140 EG, nx & cmntry on Black Majority rule
 (Phillips 4/13); 2145-2205 FR/Vernaculars, local mx with vocals,
 instrumental and orchestral music; and talks (Thompson 4/17).
- 15190 SWEDEN Sverge Radio; Utlandsprogrammet SSB relay, 1832 SW with
 nx, talk on punk rock (yuch!) with a few (Thank-God) selections.
 Good signals (Hywarren nd).
- 15195 JAPAN NHK/R. Japan; 0215 EG, about archery; exc (Maxfield 4/24).
- 15210 FRANCE RFI; 1200-1215 FR, nx & cmnt, ID; to N.Am. (Miller 4/29).
- 15215 UK BBC W.S.; 1115-1125 to C.Am., Carib.; interviewed a MD about a
 person's right to die when he wishes (Barhart 4/14); 1630 (Clark).
- 15219v CHINA R. Peking; 0229 EG, very weak; //15060 (Mackay 4/29).
- 15225.1 TUNISIA RTVT; 2115 AR, Arabic mx & ID, then R. Nederland came on
 at 2125 (Yacono 5/2); 0450 AR, M.E. mx, ID at 0504 (Klein 4/30);
 0504 AR, chanting (Bryan-CA 4/17). Fqy: DLW 5/21 at 0600 GMT
- 15230 CUBA RHC; 2000+ EG, "From The Land of Music" pgm (Miller 4/29).
- 15240 GERMANY E. RBL; 1350 AR to M.E. w/50 kw. (Barhart 4/16).
- 15240NF SWEDEN RS; *1230 EG to E.As., //21590 (Zilmer-WI 5/7).
- 15240 YUGOSLAVIA R. Yugoslavia; 1530 EG, cmntry, etc. (Miller 5/4);
 1535 EG, nx, feature on Montenegro; medium (Mackay 4/22).
- 15245 USSR R. Moscow; 2230 EG to Gr. Br. & Ireland (Mackay 4/23).
- 15250 ROMANIA R. Bucharest; nx, cmntry, etc. (Miller 5/2); 1300 EG, nx,
 cmntry, translation of speech by president Ceausescu (Brooker 4/21);
 1300-1325* EG, world nx, tlk on aviation history, followed by info
 on "Listeners' Club"; fqy listings, ID, s/off; fair (Jordan 4/21).
- 15255 NETH. ANTILLES TWR-Bonaire; 1225-1300 EG, sermons, hymns, "DX
 Special", story of Moses & the bullrushes (Miller 4/22, Maxfield 4/15)
- 15260 ASCENSION IS. BBC W.S.; 2145, on int. cinema (E.Hoffmann 4/14).
- 15265 FINLAND RF; 2300 EG, nx, interview w/musician; poor with het from
 15270; best 2300 freq ever, tho (Conrad 5/9); 2300 EG, stories from
 classics; fair (Zilmer 5/7).
- 15265 SEYCHELLES FEBA; 1740-1750 EG, mx, ann'd as test xmsn (Sherman 4/11).
- 15270 CHINA RP; *1300 EG w/IS, ID then nx; to S.E.A.; good (Brown 4/23);
 1300 EG, s/on, news (Swenson 4/9).
- 15270 FINLAND RF; 0513 FN, w-nx (Bryan-CA 4/17).
- 15295 MALAYSIA R. Malaysia; 1635-1650 AR?, mixture of oriental/Western
 music; ID; good (Bogel-CA 4/28).
- 15305 SWITZERLAND SBC; *2100 IS followed by Dateline & cmntry; fair
 (Yacono 5/2); 0145 EG, Dateline, etc., much better than 11715 or
 9725 or 6135 (McMullen 4/30); 0145 EG, nx, Dateline, tlk on founder
 of Red Cross movement; good, stable signals (Conrad 5/9); 0200 EG,
 "Talk-Back" pgm; vg, hd //s (Brown 4/16); 0210 EG, interview on
 motorcycle racing; fair (Baldwin-NC 4/13).
- 15310.9 GUINEA R. Nationale; 2224 FR, slightly higher fqy now (DLW 5/21).
- 15310 BULGARIA R. Sofia; 2230 SP?, ID at 2230 (Wallace-JAPAN 4/15).
- 15315 ITALY RAI; 0100 EG, nx, banker shot in legs while man and women
 escape on motorcycle (Jakl 5/15); 0100 EG, very good (Conrad 5/9).
- 15320 AUSTRIA 1230-1300 EG, about Austria's tourist attractions (Sherman
 4/30). Now reported to have moved to 15155, per Hauser in UPDATE -ed.
- 15320 USSR R. Peace 'n' Progress; 1100 EG, nx, cmnt, mx (Zilmer 4/22).
- 15325 PAKISTAN RP; 0157 with IS, ID, into Indonesian; fair (Lobdell 4/22);
 0225 IN, commentary and music (Taylor 4/13).
- *15325 UGANDA UBC; 0329 EG/FR with ID's & light music, test program giving
 address & requesting reports; for North America; heard after
 report by Jim Conrad on RCI DX Digest (DLW 5/22).
- 15330 BULGARIA R. Sofia; 0000 EG, nx (Jakl 5/10); 0015-0100 EG, on UK/
 Bulgarian trade, May 1 celebrations (Jordan 4/30); 0025 EG, inter-
 view with filmmaker, no AFRTS today (Mackay 4/23).

- 15334 COLOMBIA R. Nacional de Colombia; 0045 SP, opera-type singing (Barhart 4/9); 0300 SP, orchestral pgm; 3-bell IS & ID at 0315 (Birkhaeuser 4/23); 0345 SP, classical music (Novello 4/24).
- 15345 NORWAY RN; 1550 NO, music and anmt: "You are tuned to Radio Norway." (Hancock 4/27).
- 15350 LUXEMBOURG RTL; 2135 FR, pop/rock mx (Taylor 5/8).
- 15350 SWITZERLAND SBC; 1506 IT, with ID & Swiss nx; fair (Wilkinson 4/14).
- 15365 AFGHANISTAN RA; 1131 EG w/ID, nx on coup d'état; name not changed to Kabul R., contrary to press reports; poor (Lobdell 4/30).
- 15375 EGYPT Radio Cairo; 2100-2140 EG, "Arabic by Radio, Lesson 117" in W.Afr. Svc. (Marable-ITALY 4/15); 2115 EG, relay of UN program; music, poor to good (Brown 5/6); 2117 EG, on occupied areas (Yacono 5/2); 2140 EG w/UN pgm, call to prayer; ID as "the Voice of Africa" until 2200*; good (Lobdell-MA 4/29).
- 15380 NEW ZEALAND RNZ; 0230 EG, musical comedy stage play; ann'd //11850 which was not heard; fair (Zilmer 4/25); 0345* EG (Maxfield 4/25).
- 15385 MEXICO XERMX; 2155-2206 SP, ID's, mx (Valko 4/17); 2358-0005 SP, ID's in EG/SP/FR; "melodias con historia" pgm; good (Klein 5/2); 0041 SP, happy mx; ment. Mexicana (Barhart 4/9).
- 15390 USA VOA; *2300-0000* SP, special xmsn on Panama Canal treaty vote, using unlisted 15390 & 17705 plus some of the usual L.Am. freqs; live coverage from Congress, White House (Henion 4/18).
- 15395 PHILIPPINES FEBC; 0500 EG w/IF & freqs, rel pgm (Ethen 4/30).
- 15400 ASCENSION IS. BBC W.S.; 1430-1520, comedy show, reduced to practically nothing by 1500; checked 11750 & 9740: playing mx and ancing they had lost London because of reception difficulty (Bogel 4/30). A major solar flare occurred just while you were listening; I and others noticed they same effect the same time you did! -ed.
- 15400 VENEZUELA R. Nacional; 2200 EG w/ID, freqs, Venezuelan mx, facts about Venezuela, "Economic Panorama", tourist promos (Taylor 5/8).
- 15410 RWANDA DW relay; *2200 GM, IS & site ID; good (Yacono-NY 5/2).
- 15415 NETH. ANTILLES TWR; 0140 SP, with IS, ID, fqy, light mx, nx rel talks, etc.; very good (Klein 4/18).
- 15425 AUSTRALIA VLMW15-Perth; 0905 EG, world & local nx (Klein 4/18).
- 15425 SRI LANKA SLBC; 0115 EG, "All Asia Svc. of SLBC", pop mx, Back to the Bible; poor (Klein 4/18); 0157-0145 EG, "Sunday Meditations" (Hamilton SC 4/1); 0157-0216 EG, mx by Eric Clapton and "Back to the Bible" and Birthday Greetings (Valko 4/17).
- 15425 TAIWAN Voice of Free China; 2300 CH with IS, ID; f (Klein 4/19).
- 15435a TANZANIA RT; 0500* EG, nx, best copy ever (Mackay 4/26).
- 15440 USA WYFR-Okeechobee; 1800-1845, usual (Brooker 4/29); 0032 SP, poor modulation; fair (Barhart 4/9).
- 15460 UZBEK SSR R. Tashkent; 1200 EG, "Tashkent" ID, then news; fair/good (Zilmer 4/21, Osterman 4/28).
- 15465 USSR R. Moscow; 0610 EG to Africa; strong & clear (Mackay 4/30); 145-1500* EG, "RSP&P" on Soviet friendship (Mackay 4/22).
- 15475 EGYPT R. Cairo; 0530 AR, m-nx (Bryan-CA 4/17).
- 15485RF ISRAEL IBA; 2230 EG, nx, cmnt, "Calling All Listeners"; fair, // 11655, 9815, 9435 (Zilmer 5/7); *0400 HB, s/on with short prayer?; Israeli music, ads "Frigidaire" (Henion 4/25).
- 15490 USSR R. Moscow; *1500 EG to Africa, nx by M&W, weak; //15465, 15425, 15150, 15135 -- all better (Mackay 4/22).
- 15520 CHINA RP; 2348 SP, W ancr, and Chinese mx; good (Hywarren nd).
- 15530 ISRAEL IBA; 1200 EG, nx, cmnt, wx, ads; poor, //21495, 17815, 17685, 15405, 11655 (Zilmer 5/7); 1212 EG, nx and cmnt, poor but only IBA fqy heard this time period (Osterman 5/1).
- 15580 CHINA (t) R. Peking; 2350 unid. lang. with M&W dramatic talks, some revolutionary music; suspect China or possibly Korea N.; poor to fair signals (Hywarren). Doubt if Korea N. above 12 mhz... -ed.
- 15590 CHINA RP; 2355 CH, female talking; weak but clear (Mackay 4/23).
- 15790 CHINA RP; 1500 EG with ID, nx & cmntry to India; f (Lobdell 4/15).
- 16030.0 USSR 0330 Russian woman with time; SSB feeder (Hauser-TN 4/26).
- 17680 CHINA RP; 0051 EG, tlk by W on women in China; loud (Mackay 4/30).
- 17680 EGYPT R. Cairo; 1720 AR, with male ancr & ME mx (Bryan 4/16).
- 17685 ISRAEL IBA; 2230 EG, nx, cmnt, //15485, 11655, 9815, 9435 (Zilmer 5/7)
- 17705 CHINA RP; 0055* PT, Western mx, ID, nx; medium (Mackay 4/30).
- 17705 INDIA AIR; 0300-0330 HD, tlk & local music (Sherman 5/6).
- 17710 AUSTRIA ORF; *1230-1300* EG, nx, Weekend Rev., mx (Fraser 4/15).
- 17710 CHILE Voice of Chile; 2225-2235 SP, mx, ID's & gongs (Ponder 4/19).
- 17710 HUNGARY RB; 0200-0230 EG, nx cmty, //15225, 11910, 9585 (Sherman 5/6).

- 17725 AUSTRALIA RA; 0431 EG, with ID, nx headlines, pops (Bryan 4/17).
 17730 GERMANY W. DW; 1745 EG to Africa, talk on village health care; "Sounds Great" pgm; strong, //15135 (Mackay 4/9).
 17730 USSR RM; 0100 CH with IS for Foreign Svc.; flutter (Mackay 4/30).
 17735 CHINA RP; 0055 SP, Chinese vocal mx; //strong & clear (Mackay 4/30).
 17740 BELGIUM ORU/BRT; 1653 EG, carillon mx, cntry; fair (Novello 4/22).
 17740 SWITZERLAND SBC; 1315 EG, SBC on SSB proves that SSB is no help unless you get rid of the co-channel QRM by finding a clear fqy in the first place; quite poor, but better than 15140 where nothing but USSR could be heard. I suspect that the supposed 15140 beam to N.Am. is going out in some other direction, as they admitted happened before, since reception is so bad on it. As for 11780, the SSB fqy at 0145, completely inaudible due to co-channel QRM (only Brazil's 250 kw xmt! -ed); but, 15305 is pristin (Hauser 5/7).
 17745 AUSTRALIA RA; 0710 EG, nx bulletin, light mx; f-g (Klein 4/6).
 17745a SWAZILAND TWR-Manzani; *1910 FR, usual rel pgm; g (Hywarren nd); 1935-2019* FR w/ID, rel tlks and music (Henion 4/25).
 11750 CUBA RHC; 2117 EG, mx, requests for pgm improvements (Baldwin 4/13).
 17765 USSR RM; *1800 IS & opening theme for S.E.As. service, ID by M in unid. lang., into presumed nx; good but QRM (Hywarren).
 17770 ITALY RAI; 0032 IT, music pgm; fair (Baldwin-NC 5/7); 0100 EG, patch cords crossed so that the 0100 EG pgm, supposed to be on 15315 and 11800, was on this fqy, sked for Spanish, while Spanish was on 15315; same thing on 9575 before seasonal change (Hauser 5/8); 0305 IT/SP w/MOR mx, ID in Italian, IS, into Spanish (Mackay 5/8).
 17795 AUSTRALIA RA; 0300-0400 EG, assortment of mx such as C&W, EZ, rock & jazz; good (Mann 4/30); 0330 EG, Aust. Nx in Brief (Grenier 4/29).
 17795 ITALY RAI; *0350-0401 IS and opening beneath RA, into EG, nx; 23 radicals arrested (Brown 4/28, McMullen 5/7, Novello 5/7).
 17810 MALAGASY REP. RN relay; 1205 IN, class mx; strong (Earhart 4/6).
 17810 NETH. ANTILLES RN relay; 2120* EG, Jerry Cowan cntry (Baldwin 4/13).
 17810 PHILIPPINES FEBG; 0435 EG, w/ID, nx of Thai delegation's visit to China & Rhodesian leaders meeting with Cyrus Vance (Bryan 4/17).
 17815 BRAZIL R. Cultura de Sao Paulo; 0003 PT, "ZYB961" call given in full multi-frequency ID with a different call for each fqy; not ZYB419 as listed in WRTVH 78; flutter on signal (Hauser 4/14).
 17815 USSR RSP&P; 1130 EG, nx, cmnt, mx; fair (Zilmer 4/23).
 17825 JAPAN R. Japan; 2345 EG to N.Am., nx, poor; //15270 (Zilmer 5/8).
 17830 PAKISTAN RP; 0230-0245* EG, dictation speed news, beam to Far East; fair/good; //21590 (Lobdell 4/30, Brown 4/9, McMullen 5/7); 0330-0345 Swahili?, Arabic mx then song in more African style; 0340 EG, nx (Henion 4/25); 0440 EG, slow newscast & s/off (Bryan 4/17).
 17830 SWITZERLAND SBC; 1530 EG to Africa, nx etc. (Jaki 5/18).
 17840 CZECHOSLOVAKIA R. Prague; 1530 EG to Africa, lbx (Jaki 5/14).
 17845 PAKISTAN RP; *0157 w/IS, ID in EG, and Indonesian pgm (Lobdell 4/30); 0239-0245 IN/EG, mx, news in English at 0239, Indo ID by W; much better than 17830 (Overcamp-SC 4/27); 0225-0245* EG/IN to Indonesia, mx, EG nx at 0240; anthem at s/off (Henion 4/25).
 17860 USSR RM; 2300 RS; ID as "Kiev"; 2330 R. Rodina; 0030 Mayak; 0130 into R. Moscow ID, into Golos Rodiny; 0200 R. Rodina (Brookwell 4/14).
 17870 USSR RM; 1300 EG, RSP&P (Zilmer 4/23); 2300 EG to N.Am., 2330 R. Rodina ID; 0030 R. Kiev to N.Am., 0100 Vilnius (Brookwell 4/14).
 17880NF USA WINB; 1830 EG, rel pgm, ID, garbled w/QRM; p (Brookwell 4/9).
 17885 CYPRUS BBC W.S.; 1200 World News; poor; //21660, 11780 (Zilmer 4/29).
 17900 VATICAN VR; 1700-1717* EG, nx, over USSR; fair (Brookwell 4/8).
 18000 SAUDI ARABIA/TURKEY? 0223, Arabic mx but never any annts; perhaps Riyadh, 3x6000 (report of Turkish mx on DX Digest -ed) (Hauser 5/7).
 18150 USSR Tikhv Ocean; 0500 IS, RCSSB feeder; Vladivostok (Brookwell).
 21495NF ISRAEL IBA; *1200 EG, wx, ads; poor; //17815, 15530 (Zilmer 5/7).
 21585 SWITZERLAND SBC; 1815 EG, nx, cmnt; fair (Zilmer 5/7).
 21604 KUWAIT RK; 1245-1400 AR, many mentions of Kuwait, live sports coverage at 1250; strong, not //21685 (Mackay 4/22).
 21685 KUWAIT RK; 1305-1505 AR, nx, ID's at 1315; fair (Mackay 4/22).
 21700 PORTUGAL RP; 1706 PT, Portuguese mx (Bryan 4/16); 1445-1458 PT, very nice two-step accordian mx; several clear ID's (Blaise 4/23).
 23191.5 UK BBC; 1302 Cantonese/IN ISB feeder to Tebrau/Kranji (Hauser 4/16).
 25690 PORTUGAL R. Liberty; 1230, add another to eleven meters, though quite weak; sked 0800-1500 with 10 kw. (Hauser 5/7).
 30275h ANTIGUA BBC; 2259 PT to Brazil, 5x6055 (Hauser 4/29).

NASWA ABBREVIATIONS

The following abbreviations are the ones most often used, especially by the Log Report editors. Though it might be desirable to spell out words rather than to abbreviate, the use of abbreviations permits the inclusion of more items in the space available. When reporting, you can also use the same abbreviations, but feel free to write out anything that might be ambiguous. All the times used in FRENDX, except where otherwise indicated, are in the 24-hour GMT (Greenwich Mean Time) system.

a	approximate	mx	music
ARO	Amateur Radio Operator (ham)	NA	National Anthem (or North America)
BBC MS	BBC Monitoring Service	NF, nf	new frequency
BBC WS	BBC World Service	nx	news
class mx	classical music	pgm	program
cmntry	commentary	QRK	Readability
CW	continuous wave	QRM	Interference
DJ	disc jockey	QRN	Noise (static)
EIR	East is Red	QSA	Signal strength
EL, EZ	easy listening music	QSB	Fading
FBIS	Foreign Broadcast Information Service	QTH	Geographical location
f/in	fade in	relig, rel	religious
f/out	fade out	rev	revolutionary
freq, fqy	frequency	RF, rf	reactivated frequency
fund	fundamental	s/b	should be
h, harm	harmonic	SSB	single sideband (LSB = lower sideband, USB = upper sideband)
het	heterodyne	SWC	"Shortwave Center", FRENDX
HS	Home Service	svc	service
ID	identification	t	tentative
Int	Internationale	TC	time check
IS	interval signal, identification signal	tlk, tk	talk
ITU	International Telecommunication Union	unid	unidentified
lang	unknown language	ute	utility station
lbr	letterbox, mailbag	v	varies (or very)
LL	language lesson	w/	with
LN	"Listeners Notebook"	W	woman
LR	"Log Report", FRENDX	WS	BBC World Service
lvl	level	wx	weather
lcl	local	xman	transmission
M	man	xmtr	transmitter
mod	modulation	//	parallel
MOR	middle of the road mx	*0000	s/on (sign on)
		0000*	s/off (sign off)

Geography:

Afr, Af	Africa(n)	LAm, LA	Latin America(n)
As	Asia(n)	NAm, NA	North America(n)
CAm, CA	Central America(n)	Pac	Pacific
ECNA	East Coast N. America	SAm, SA	South America(n)
Eur	Europe(an)	SEAs, SEA	South East Asia(n)
FE	Far East	WCNA	West Coast North America

Languages:

AK	Afrikaans	EG	English	IN	Indonesian	RS	Russian
AL	Albanian	FS	Farsi	IT	Italian	SC	Serbo-Croatian
AR	Arabic	FN	Finnish	JP	Japanese	SP	Spanish
AM	Armenian	FR	French	KR	Korean	SH	Swahili
BG	Bulgarian	GM	German	LH	Lithuanian	SW	Swedish
CH	Chinese	GK	Greek	NO	Norwegian	TT	Tahitian
CZ	Czech	HB	Hebrew	PL	Polish	TK	Turkish
DN	Danish	HD	Hindi	PT	Portugese	UK	Ukrainian
DT	Dutch	HG	Hungarian	RM	Romanian	VT	Vietnamese

Reporting signal quality:

excellent = exc, e good = g fair = f poor = p

(SINPO and SIO codes are acceptable for reports, but in most cases editors will convert to the above format for publication purposes).

THE HAP DXer's COURSE

The first four tapes in this new series of hobby tapes from the Handicapped Aid Program, which contain lots of valuable information of interest to veteran and novice SWLs and DXers alike, are now available. Each tape in the series is 60 minutes in duration or longer.

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- TAPE: 2 S.W. Receiver Specifications Explained; S.W. Jamming (with examples); 60:00 Harmonics & Images - What They Are; Reception Reporting - The Basics.
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GREG RAVENHORST
HOLLANDALE, MN 56045

Many thanks go out to 68 reporters this month. Sure can tell it's summer! Excuse what I'm sure will be an error-filled page, as I'm doing this while my truck is being loaded. just a little rushed!

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ATTENTION

I am looking for a replacement for my job here at NASWA. It is not nearly so tough as the work that the other editors do. It just requires a little time. I've greatly enjoyed working for NASWA, and still do, but it is just to the point that I have to set my priorities straight. My daughter Pamela, is just past 2 years of age, and really does need to know that her daddy does more than open mail. This year in business is a real challenge, with our company doing a battle toe-to-toe with the "big boys", and that requires some extremely long days. Because of these 2 items, my work with NASWA has been suffering in the past few months, and is in prime evidence in this months "A" section. I would really like to continue being editor, but I don't feel it is right to both you and NASWA. If I can't give my best effort, then I feel that it should be time to step down and make way for someone with the time and the enthusiasm to help keep NASWA was the best outfit around. I feel that time has come, and I hope that YOU will write to myself or HQ, and express your interest. I will continue as editor as long as it is necessary, but I hope that someone will step forward soon. It is real rewarding to work for NASWA, and to contribute to such a fine bulletin, and to know people like Mac, Bill, Glenn, Tom, Dan, Dave, Steve, Alan, Jerry, Sam, Tom A. Myron, and the others. Enough said. Think about it. 73's. *Greg*

PUBLISHER'S PAGE



SOMETHING NEW! Interested in the many music programs on shortwave? Diane Levesque, NASWA's new Special Features editor, is going to do an occasion column on "SW Music" and she asks that you send her your material and comments. If you have a favorite musical program you'd like to see spotlighted or if you know of any such programs you think others might like to hear, please send your information to: Diane Levesque, P.O. Box 2573, Carbondale, IL 62901.

Diane is also going to edit a column focusing on women in the DX/SWL hobby and she would appreciate hearing from NASWA's female membership on this. If you don't have any comments or suggestions to offer right now, just send Diane a postal card and introduce yourself.

At present, these columns will appear in FRENEX only when space and material are available.

Third Annual New England Area DXers Outing

Its getting to be that time again gang. According to established tradition the outing will be held on the first Sunday following Labor Day, that is September 10th. It will be held at Black Rock State Park in Watertown, CT. The first outing held in 1976 attracted 32 participants. Last year a total of 53 people attended the cookout. This year we hope to attract over 75 DXers with their families and friends.

One of the events at this years outing will be a "Sell and Swap-a-Thon". At this one will be able to sell, purchase or swap receivers, antennas, books, records, amplifiers, tuners or any other articles relating to DXing. Attendees will be encouraged to bring any excess gear or equipment with them for possible sale or swap.

If you "tentatively" plan to be in attendance and would like to receive more detailed information, please contact: Sam Barto, NASWA QSL Editor, 245 Cherry Ave., J-11, Watertown, Conn. 06795.

HELPING HAND: For sale, FRG-7 with Gilfer filters. \$225 ppd. Must sell. Jim Davis, 101 Idaho St. Travis AFB, CA 94535. Phone 707-437-3963 before 0600 GMT.

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HELPING HAND: For sale, National NC-183D with 5 position crystal selectivity, phasing, Variable Noise Limiter, Variable BFO, Full Variable Tone Control. 540 kHz thru 31 MHz plus 46 MHz thru 56 MHz. Works good. Has two RF stages active on 1.6 MHz and up. Originally \$400 in 1955....reconditioned....asking \$175. W. Page Pyne, P.O. Box 1062, Hagerstown, MD 21740. (301-733-3550 Ext 221)

HELPING HAND: For sale, Panasonic RF-2800 receiver with digital readout. Mint condition. Only \$199.00. For sale, Ameco Model PLF FET Preamplifier in mint condition. 1.8 - 54 MHz. \$29.00. Steve Handler, 3330 Old Mill Road, Northbrook, IL 60062. (312) 433-2802 day; (312) 498-1403 night.

HELPING HAND: For sale, brand new Panasonic RF-4800 with digital readout. Fine fig. \$425.00 UPS prepaid. Larry Brookwell, 1326 Cypress, San Diego, CA 92154. Phone 714-429-9728.

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