

JANUARY - 1978

# frenDX

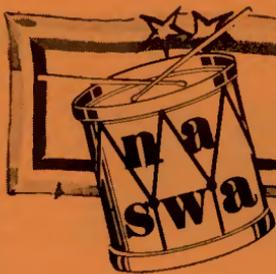


NORTH AMERICAN SHORT WAVE ASSOCIATION

POST OFFICE BOX 13

LIBERTY, INDIANA 47353

U.S.



# ROLL CALL!!!!

Welcome to 60 new NASWA members joining during December. We hope they find their membership be helpful.

ANDERSON, Al, Seattle, WA  
ARCE, Horacio, Monterrey, Mexico  
BAYSA, Rizal J., Washington, MI  
BLIXT, Scott, Crystal, MN  
BOHLMAN, Robert, West Bend, WI \*\*  
BROCAR, Robert E., New Haven, CT  
BYRON, Leslie, Laurelton, NY  
CHATTIN, E. Lee, Jr., Grottoes, VA  
COX, Stephen, Newton, IL  
CUNNINGHAM, Larry, Columbus, OH  
DAVIS, Ronald L., Phillipsburg, OH  
DRASIN, David, W. Lafayette, IN  
DUFFY, John L., Norton, MA  
EVERMAN, Charles C., Versailles, KY  
FOMIN, Andrew C., Chattaroy, WA  
FUGATE, J., Athens, TN  
GANT, Janet R., Langley AFB, VA  
GETZEL, Arthur S., Flushing, NY  
HARMON, Clyde W., Anniston, AL  
HART, R.S., Jacksonville, FL  
HASSE, John, Bloomington, IN  
HELLER, Fred B., Jr., Philadelphia, PA  
HUMPHRIES, Greg, Winnipeg, Man.  
KASTELINK, R.F., Bethlehem, PA  
KIMBALL, Orin, New York, NY  
KLOPUSHINSKE, Richard, Paonia, CO  
KRAATZ, Louis C., Milwaukee, WI  
KRAMER, Roy, Dallas, OR  
JOHNSON, Charles E., Denver, CO  
LAUDISE, Edward J., Clyde, NY  
LIMANN, Jack, Caracas, Venezuela  
LINGER, William J., Santo Domingo  
LUSKIN, Arlene, Silver Spring, MD  
McDAVITT, William, Rome, NY  
McDONALD, Duncan L., Monroe, CT  
MANNING, Grant, Escondido, CA  
MYERS, Clifford, Phoenix, AZ  
OLSON, Stanley S., Smithtown, NY  
ORTLOFF, Gary L., Kingston, NY  
PATTERSON, P.L., Wellsboro, PA  
PESSEK, John E., Minneapolis, MN  
PETERSON, Mark A., Philadelphia, PA  
RHODES, Tom, Williamsport, MD  
ROBINSON, Ronald, Cedar Grove, NJ  
SAHNOW, Steven P., Cranston, RI  
SCACCO, James, Terryville, CT  
SCHUMANN, Robert, Dallas, TX  
SHERMAN, Steve, Topeka, KS  
SIVULA, Avlis, Thunder Bay, Ont.  
SKORA, Gregory, Weston, Ont.  
STEPHENS, J.H., Vancouver, B.C.  
SUPER, Thomas, Minneapolis, MN  
THOMPSON, Robert W., Chicago, IL  
TOMLINSON, Tom, Winston-Salem, NC  
WASTRADOWSKI, Curt, Centralia, IL  
WATSON, Frenk H., Durham, NC  
WEINHOLD, Terry, Terre Hill, PA  
WILLIAMS, Jerre O., Jr., Hapeville,  
WILSON, Bill, Huntsville, AL  
WORD, Gerry, Carrollton, GA \*\*

\*\*Nice to have you back!

NEW MEMBER NOTES: A special welcome to J.H. Stephens, Thunder Bay, Ont. H says he is over ninety years old and started DXing in the 30's using a 3 tube National operated on 30 type 2V tubes and plug in coils since there was no electricity within 10 miles..... Our new member Jack Limann in Caracas, Venezuela has been in the hobby for 43 years and is a former broadcasting owner and producer.....William J. Linger is in the U.S. Foreign Service currently in Santo Domingo and uses SWL to get news and sports from home.....Tom Rhodes, Williamsport, MD is active in ham radio (WA3FNK) and says he got his start in SWL.....J. Fugate, Athens, TN says he speaks Russian, Hebrew, Dutch, Arabic, so listens almost exclusively to programming in those languages.

# NASWA

A REPORT FROM  
HEADQUARTERS

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

GOOD-BY PARK FOREST, HELLO LEVITTOWN: As mentioned a few months ago, FRENDX and Update will have a new publisher as of the February, 1978 issue. This is the thirty-second and last issue to be mailed from Park Forest, Illinois under the direction of Alan Mayer who has been publisher since May, 1975. Many are not aware aware that Alan had to plan a very tight schedule to get FRENDX published due to the demand of his regular employment with Atlantic Richfield Company. It is worthy to mention that during his time as publisher, not a single issue of FRENDX or Update (FlashSheet, DX Hotline) was late getting into the mail, that having been the first Saturday of each month for FRENDX. Our thanks for a job well done.

Even though Alan will no longer be publisher, we are pleased to announce that he will continue as a member of the Executive Council in the capacity of Corresponding Secretary.

Starting with the next issue, FRENDX will be printed and mailed from Levittown, Pennsylvania with William E. Oliver as publisher. We hope our advance planning has been such that the change over will not cause any delay in getting FRENDX in the mail on schedule. We look forward to working with Bill Oliver as the new publisher.

A REMINDER: All contributors to the Log Report sections should remember that distributing editor Greg Ravenhorst has a new address for the time being. Send all material for the Log Report sections direct to Greg Ravenhorst, c/o Sunset Bay Camp, Baby Lake, Hackensack, MN 56452, and remember the deadline for material to reach Greg is the 12th of each month, otherwise the material cannot be used.

NEW LANGUAGE ABBREVIATIONS ADOPTED: For several months, the Log Report editors have been using a revised list of language abbreviations which were thought to be an improvement over the ones traditionally used. We ask for membership comments on the new list, and judging from the response received, the new abbreviations seem to be the preference of most of those offering comments. We now make the new abbreviation list official.

The following is the list of abbreviations the Log Report editors will be using in the future. LR-D editor David Walcutt worked with others to develop this new list, and his time and efforts spent on this project are appreciated. We suggest you keep this issue of FRENDX handy for future reference, although it will be published again from time to time.

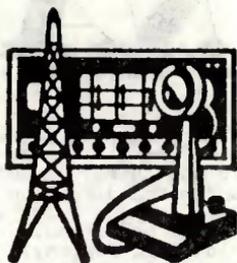
AK Afrikaans	EG English	IN Indonesian	RS Russian
AL Albanian	FS Farsi	IT Italian	SC Serbo-Croatian
AR Arabic	FN Finnish	JP Japanese	SP Spanish
AM Armenian	FR French	KR Korean	SH Swahili
BG Bulgarian	GM German	LH Lithuanian	SW Swedish
CH Chinese	GK Greek	NO Norwegian	TT Tahitian
CZ Czech	HB Hebrew	PL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

1978 TROPICAL BANDS MONITORING AND CONTEST: Word comes to us that this event is being scheduled to take place from 0001 GMT February 11, to 2359 GMT March 13, 1978 and will cover the 120, 90, 75, and 60 meter bands. All DXers and SW listeners are invited to participate either as a monitor or as a contestant. No entry fee is required, and some cash prizes and certificates of participation will be awarded. While this is not a NASWA sponsored event, it is being headed and promoted by NASWA member James W. Young, P.O. Box 576, Wrightwood, CA 92397. (see page 26 Lk-15)

ON THE COVER: photo of staff room of Radio Korea. Left to right: Miss Chon Yongja, NASWA member Koji Imada from Japan; Miss Pak Yun Sun, head of Japanese section/announcer; and Mr. Kim Son Bon, news announcer.

73's  
  
M. R. Leonhardt  
Executive Director

# Shortwave Center



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

JANUARY 1978

Welcome to a new year of DXing. We hope that FRENEX will continue to bring you valuable news and information about shortwave broadcasting throughout the coming year. However, we will require your cooperation. You must write and submit the articles and information or send in the schedules, loggings or QSLs, etc. to the various sections. We solicit short articles and features on shortwave broadcasting or the reception of same for Shortwave Center. We especially request that experienced DXers in NASWA share their knowledge with the rest of us through the pages of FRENEX.

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## Latin America

KEEPING UP WITH THE LATINOS

by Jerry Berg, Lexington, MA

At some point in his hobby career just about every DXer takes a special look at Latin America. By any standard, DXing Central and South America is enigmatic. On the one hand, this area offers the DXer more potential DX targets than any other part of the world. Almost every country boasts a long list of public and private shortwave stations, from the professional city broadcasters to low-powered local stations high in the Andes or deep in the jungles of the interior. Their relatively low power makes many of these stations real DX, yet their proximity to the United States causes their signals to be relatively well heard.

But Latin American DXing is by no means easy. Broadcasts are almost exclusively in Spanish or, in Brazil, Portuguese. English is rarely heard. Programming often features local music which, to the untrained ear, may seem relatively homogeneous and offer few clues to station location. Without some knowledge of the language, ad strings and other rapid-fire announcements are likewise difficult to decipher. In addition, the large number of these stations operating at 5 kHz intervals throughout the tropical bands makes the capability of accurate frequency measurement especially useful in order that logging may be narrowed to a few possibilities. Finally, the highly erratic verification policies of these stations means that obtaining QSLs will often require unusual perseverance. Reports must be written in Spanish or Portuguese, making the already difficult problem of providing accurate and complete program details even more complicated, and the sparsity of returns dictates repeated follow ups.

Taken together, these factors tend to discourage many DXers, particularly those who, like myself, like to have a QSL to show for their DXing efforts but lack either the time or determination to write large numbers of foreign language reports. Yet, to ignore these stations deprives one of the opportunity to learn this important aspect of the hobby. In practical terms it is also counterproductive to the development of a detailed working knowledge of the tropical bands, and this in turn makes the identification of non-Latin stations in these bands that much more difficult.

How to DX Latin America, have some tangible results for your efforts, and still have time left for other DX and maybe even the wife and kids? My answer has been to start a library of taped identifications of Latin American stations. I started doing this about three years ago and I now have a collection of almost three hundred such identifications. The process of taping IDs has not only yielded many hours of enjoyable DX, but has vastly increased my knowledge of Latin American DXing and the tropical bands in general.

The project requires little in the way of special techniques or preparation, but a few comments might be helpful. Using a real-to-reel recorder is best, as it permits editing and assembling of the separate taped segments into long playing tapes. It is a good idea to keep the recorder operating at all times while you are DXing. Even if you are just "tuning around," turn it on - - you never know when you might come across something

interesting. This is a good rule for any DX session, but it is especially important when you are seeking IDs. It goes without saying that you should patch directly from receiver to recorder in order to get the best possible recording. Don't use a microphone. Utilize whatever recording speed produces the best quality recording on your recorder. On mine it is 7.5 inches per second.

Because of the frequent changes in stations, slogans and frequencies in Latin America, it is important that you continually supplement your World Radio Handbook with up-to-date station information. Club bulletins, such as FRENDX, are indispensable for this purpose. Bulletins which list loggings by country are also useful. The Danish Shortwave Club's International Bulletin, SHORTWAVE NEWS, is helpful in that in addition to member's loggings it has a special Latin American section which carries Latin updates to the WRTH. The DSWCI Tropical Bands Survey is also a must. The more such current information you can gather, the better. Whichever sources you use, keep a book, arranged by hour, in which you enter those Latin stations which others are hearing, such a book - - which most experienced DXers keep anyway - - is very important when it comes to Latin DXing because there are so many stations to keep track of. It will help you make the most of your DX time when you sit down to listen.

I like to make the recordings at sign-on or sign-off whenever possible, since that is when the most complete ID can be heard. This usually means listening either late at night or early in the morning. Being an early riser I do most of my Latin DXing in the early AM at various times between 0800 and 1200 GMT, depending on the season. I have found that signals are usually better in the morning, although they tend to fade fairly quickly. Most DXers would probably prefer nighttime listening, however, and indeed many stations can only be heard at that time.

The taped segments range from one to several minutes. I try to include part of the national anthem or tuning signal if one is heard, plus some of the music played, if any. I then splice the recording, preceded by a leader containing the station name and date, time and frequency of reception, onto a seven inch reel containing the recordings from that particular region. When the reel is full, I prepare an index to it, showing for each segment the same information that is on the leader. I also keep a separate book arranged by country, listing each station heard and the reel and segment number where it can be found.

I have found this an interesting approach to Latin American DXing. At present I have ten tapes containing Latin IDs. When the DX doldrums set in, it is fun to listen to a tape and relive past DX experiences from a particular area. I also find that the prospect of hearing additional stations and keeping my tape library up-to-date causes me to maintain a continuing familiarity with and interest in Latin American DXing. In addition, the general knowledge of the bands which results from long hours at the dials searching out the Latins is an invaluable aid when it comes to identifying other stations in the tropical bands.

Of course, this same approach could be used for any part of the world, and seems especially suitable for areas which are difficult to verify. How about a tape of Chinese or Russian regionals? A tape of New Guinea or Indonesian stations would also be interesting. Perhaps such collections already exist among the membership?

It should be remembered, however, that tapes cannot take the place of QSLs. Although a tape recording obviously constitutes evidence--indeed, proof-- of reception, it is not the same as a QSL received from the station and does not and should not count as a "verification" for any purpose. Reporting and verifying remains the greatest challenge in Latin American DXing, and those untiring souls who have the skill and perseverance to pursue the often elusive Latin QSLs are deserving of our special admiration. For the rest of us, however, taping may offer an alternative way of developing interest and skill in this important aspect of DXing.

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# R-390A

THE R-390A/URR - A RECEIVER REVIEW

by Charles A. Taylor, Indianapolis, IN

The R-390A/URR (hereafter 390A) is a workhorse receiver of the U.S. military, used by the Navy, Air Force, and Army. In the words of the Army technical manual for the receiver, Radio Receiver R-390A/URR provides reception of continuous wave (CW), modulated continuous wave (MCW), and amplitude modulation (AM)(including single sideband (SSB)) signals over continuous frequency range of 0.5 to 32 megacycles (mc). The receiver is a superheterodyne type with multiple frequency conversion. Double conversion is used when the receiver operates from 8 to 32 mc and triple conversion from 0.5 to 8 mc."

What does the nomenclature R-390A/URR mean? It is assigned according to a joint procedure used by the branches of the U.S. military. "R" of R-390A indicates that the

device is a receiver (as opposed to T, for example, which would indicate that the device is a transmitter); "390" indicates that the device is at least the 390th model of receiver designed for the U.S. military; "A" indicates that the device incorporates a major modification or modifications into the original design, the R-390. The "URR" indicates that the device is a complete set in itself, and is a universal radio receiver.

There are two technical manuals available for the 390A. One is the U.S. Army TM 11-856A, also known by the newer number TM 11-5820-358-35. The other is the U.S. Navy 0967-063-2010. These may be obtained for around \$16.00 from Sam S. Consalvo, 7218 Roanne Drive, Washington, DC 20021, or from Fair Radio Sales Co., Inc., 1016 East Eureka Street, Lima, Ohio 45802, or from other dealers in surplus military communications equipment. If obtained from another source, ascertain that the two large, foldout schematics (near the back cover) are present in the technical manual; otherwise the value of the manual is reduced--especially if you or another has to perform troubleshooting on the 390A.

The 390A was designed by Collins Radio Company, as was its predecessor, the R-390, and was built ca. 1957-1960 on contract by AMELCO, Electronics Assistance Corp., Imperial Electronics Inc., Motorola, Stewart-Warner, and possibly some others. Some claim that there is a difference among them, but it is minimal, as they were all built to meet the same MILSPEC requirements, and assemblies are generally interchangeable among 390As built by varying manufacturers (but not always, some modifications have been authorized). I have not seen any significant differences among the 390As built by varying manufacturers.

The 390A is built very sturdily, which is an advantage for one who gives his receiver heavy usage. The weight of the receiver is a disadvantage, however, to some. It is a flexible receiver, of immediate utility to the MW and SW BC DXer, the SWL, the utility DXer, and the ham.

The 390A weighs some 75 lbs. without a mounting cabinet. With a mounting cabinet, it weighs 84 to 88 lbs. Some cabinet types which will accommodate the 390A are the CY-979A and the CY-4516A/S. Spectronics, Inc., 1009 Garfield, Oak Park, Illinois 60304, has a cabinet which will accommodate the 390A for about \$15.00. If you are intending to purchase a 390A, ascertain whether you are physically capable of carrying it.

The dimensions of the 390A are (1) 10 7/16 inches from top to bottom of the front panel (somewhat less at the rear panel), (2) 19 inches across the front panel, (3) 18 1/4 inches horizontally between mounting holes, and (4) 14 5/8 inches from front panel to rear panel, (not including 1 7/16 inches projection of the two vertical front panel handles on each side.

Except for the antenna trimmer, and the various trimmer capacitors used for alignment throughout the 390A, there are none of the usual variable capacitors used for tuning in the 390A that are found in the more common communications receivers. Instead, inductors tuned by ferrite slugs positioned by racks and cams, accomplish the tuning in the 390A. The variable frequency oscillator (abbreviated VFO, called the permeability tuned oscillator PTO- in Collins receivers), which is tuned by the KILOCYCLE CHANGE control at the 390A front panel, is tuned by such a variable inductor. The 390A's excellent tuning linearity and tracking may be attributed to this usage of variable inductors for tuning.

Power Requirements. The 390A may be operated from 115 VAC or 230 VAC, 50 or 60 Hz mains, by operating a voltage changeover switch located on the power supply subassembly. It is therefore not easily adaptable to portable or emergency operation away from mains power, without a generator or dynamotor.

Breakdown. The 390A consists of six subassemblies, which may be removed from the main frame for trouble-shooting and repair. These are:

1. The IF subassembly
2. The AF subassembly
3. The VFO subassembly
4. The Power Supply subassembly
5. The RF subassembly
6. The crystal oscillator subassembly.

Trouble-shooting. Trouble-shooting the 390A is simple or difficult, depending mainly on the degree of training and experience of the technician. Using the technical manual, a simple signal generator, and a Volt-Ohm meter (capable of reading to 600 VAC, 700 VDC, and 1 megohm), one should be able to locate and repair the greatest majority of the problems likely to be encountered in the 390A.

Repair parts. Repair parts, depending on their ratings and dimensions, may be more or less difficult to obtain. The more common components, such as resistors, capacitors, chokes, and crystals are readily available from electronic parts retailers or through mail order houses. Other items, such as transformers (AF, IF, and RF), potted capacitors, tuning slugs and meters, are more difficult to acquire and may have to be ordered from a dealer who deals in 390As.

If replacements are required, the mechanical filters are a definite liability, because Collins Radio Company quotes \$150 per mechanical filter in single-lot quantities.

Tube Complement. The 390A uses vacuum-tube circuitry throughout. The tube complement consists of: one 0A2 voltage regulator; three 6AK6; three 6C4; one 6DC6; two 26Z5; two 654/6AK5; six 5749/6BA6; six 5814 (nearest non-MILSTRIP equivalent is the 12AU7WA); and one 3TF7 ballast tube. The 3TF7 is no longer readily available, and may be directly substituted by the 3TF4 (or 3HTF4, which is the same type tube), available from parts stores, or from the author. The other types are more readily available.

The U.S. Navy ordered a field change that changed the 26Z5 rectifier tubes throughout the fleet with solid state silicon rectifiers. The same modification can be performed by the DXer on his/her receiver. Two diodes are required for this modification, and the PTC205 diode (1000 P.I.V., 500 mA) will serve (available from Radio Shack as N 276-1114). Otherwise, any other diode of 1000 P.I.V., 500 mA, rating should serve equally well.

Controls and Interfaces. Controls, interconnects and meters located on the 390A front panel are:

- |   |  |
|---|--|
| 1. Kilocycle change (tuning)                              | 11. BFO pitch                                  |
| 2. Megacycle change (bandswitch)                          | 12. Bandwidth (selectivity)                    |
| 3. Local gain (volume control)                            | 13. AGC (time constant)                        |
| 4. Line gain (volume control)                             | 14. Limiter (on/off, clipping adjust)          |
| 5. RF gain  | 15. Carrier level (meter)                      |
| 6. Antenna trim   | 16. Line level (meter)                         |
| 7. Function (power on/off, AGC on/off, calibrator on/off) | 17. Line meter (line meter attenuation adjust) |
| 8. Audio response (wide/sharp)                            | 18. Dial lock                                  |
| 9. Break in (on/off)                                      | 19. Zero Adjust (calibrate)                    |
| 10. BFO (on/off)  | 20. Phones (jack)                              |

Controls and interconnects located on the 390A rear panel are:

- |                                 |                           |
|---------------------------------|---------------------------|
| 21. Ovens (on/off)              | 25. Terminal connections  |
| 22. Power (line cord connector) | a. Local audio            |
| 23. IF output                   | b. Line audio             |
| 24. Antenna                     | c. Phones                 |
| a. Balanced                     | d. RF gain                |
| b. Unbalanced                   | e. AGC (normal/diversity) |
|                                 | f. Diode load             |
|                                 | g. Break in               |

Purposes of controls and interfaces. The purposes of the various controls, interconnects, and meters are:

3. LOCAL GAIN controls audio output level of local audio channel and PHONES output;
4. LINE GAIN controls audio output level of line audio channel (line audio channel is independent of local audio channel, and can be used to drive a phone line or recorder, for example);
12. BANDWIDTH selects 0.1, 1, 2, 4, 8, or 16 kHz selectivities;
13. AGC selects slow, medium, or fast AGC time constant (see notes);
14. LIMITER adjusts clipper threshold, or removes it from the circuit altogether (see notes);
15. Carrier level meter fulfills the requirement as an "S" meter, but is accurately calibrated in 10 dB units (see notes);
16. LINE LEVEL meter measures level of audio that is present at line audio channel output (see notes);
17. LINE GAIN switch selects range (off, +10, 0 or -10) of line meter, in VUs (see notes)
23. IF OUTPUT jack permits access to receiver 455 kHz IF for interfacing of spectrum analyzers, product detectors, or the like;
24. ANTENNA permits connection to unbalanced (long wires or verticals) or balanced (dipoles or loops) antennas (see notes);
25. terminal connections, a. LOCAL AUDIO permits a direct connection (via a 500 ohm matching transformer, to a loudspeaker; b. LINE AUDIO connections are balanced and isolated from ground; c. PHONES (see notes); d. AGC Normal/diversity permits direction interconnection of receiver with strip recorders and oscilloscopes for subaudible heterodyne analysis and propagation studies; e. DIODE LOAD (see notes).

Further notes on controls and interfaces.

6. ANTENNA TRIM is rather critical in an environment of strong signals within the band of interest; especially the mediumwave band, where signal intensities of volts may be encountered. Misadjustment of this control in such an environment may cause intermodulation distortion and cross modulation, but it is not difficult to adjust.

13. AGC (time constants) FAST, MEDIUM, and SLOW AGC time constants settings have respective time constants of 0.015, 0.3, and 5 seconds. The first is very useful as it permits rapid response at the carrier meter to subaudible heterodynes (carrier beats). The second would ordinarily be used for tuning around the band(s). The third time constant is very useful, on shortwave, for leveling the rapid fluctuations of AGC due to fluttery received signals, for improved intelligibility. It is equally useful, on mediumwave, for listening to crowded channels, especially the "graveyard" local, class-IV channels. Using that time constant, the very rapid flutter and the noise associated with phase cancellations of the dominant carriers on a channel (by which, ordinarily, the AGC would allow the receiver gain to rise, while sidebands remain at relatively constant levels, producing the distortion of double-sideband, reduced carrier as received on an AM receiver) is very nearly eliminated.

14. LIMITER. The 390A limiter is as effective as any other limiter, plus the clipping threshold (both positive and negative thresholds are adjusted simultaneously by the limiter control) can be varied continuously from off to -20 dB. Nevertheless, the U.S. Army Signal Corps would have been much better advised, when determining what specifications to order in the design contract to Collins, to have specified a noise blanker rather than a limiter. This is the achilles heel of the 390A.

15. CARRIER LEVEL meter. The 390A carrier meter is referenced to 0 dB, which is equivalent to 2 microvolts.

16. LINE LEVEL meter. The line meter is calibrated from -20 to +3 VU (volume units), the VU being equal to 1 milliwatt (1 mW) across 600 ohms. When read in conjunction with the line meter level selector switch, it permits adjustment of the line audio channel output from -30 to +13 VU.

20. PHONES jack. This requires interface with headsets of 600 ohms or more. Two milliwatts of audio power is available at the phones jack, but by bridging terminals 6 and 8 of TB102 at the rear panel of the 390A (Local Audio and Phones), the full 500 mW audio output of the local audio channel is available at the phones jack.

21. OVENS on/off. When operating the 390A with ovens on (these ovens are located at the VFO and at the 2nd crystal oscillator), a half-hour warmup period is required for full stability. However, the stability advantage of operating the 390A with ovens energized is minimal unless the 390A is to be operated in colder than normal ambient temps.

24b. ANTENNA (unbalanced). This is the usual connection to the antenna. A type UC-709/U (type "c") connector is required for this connection. A static discharge and RF voltage limiting protection circuit bridges the unbalanced antenna input to ground. This protection is lacking at the balanced antenna input. When connecting a balanced outdoor antenna (such as a dipole) to the 390A, use of a balun transformer is recommended to permit connection to the unbalanced antenna input, in order to derive some protection from the input discharge circuit. Of course, always disconnect an outdoor antenna from any receiver when it is not in use and during local thunderstorms.

25f. DIODE LOAD. An external audio amplifier may be bridged between the diode load terminals and ground, via a 0.1 microfarad, 600 VDC paper capacitor, inserted in series with the hot lead, in order to bypass the 390A's internal audio amplifiers. The audio output of the 390A's internal local and line audio channels generate distortion and phase shift; and while the resulting audio is satisfactory for communications work, the 390A is capable of excellent fidelity when utilizing its 16 kHz bandwidth and an external audio amplifier. When so connected, the 390A local and line gain controls will not control the volume at the external amplifier.

Electrical Characteristics. A resume of some of the notable 390A electrical characteristics follows:

Sensitivity. The technical manual calls for a sensitivity of between 4 and 5 microvolts for 10dB signal plus noise to noise ratio (S+N/N). The Drake SPR-4 and the Hammarlund HQ-180 have better sensitivity than the 390A, but the 390A was not designed as a DX receiver. The 390A is designed for use in a high signal density environment. At mediumwave broadcast frequencies, the 390A's sensitivity is more than adequate, except perhaps in rural districts, because ambient (natural and man-made) noise forms an irreducible floor under which weak signals become unreadable and are lost. In rural districts, a preselector may be useful if the ambient noise level is low. In both situations, especially the rural, an amplified loop may be helpful. However, an amplified loop may seriously degrade the very good strong-signal handling capabilities of the 390A in high signal density districts, especially if its gain is unnecessarily high. A loop with high-Q characteristics would help in avoidance of intermodulation distortion and cross modulation. At SWBC frequencies above 7 MHz, where ambient noise imposes a gradually less severe limitations on weak signal readability, the 390A sensitivity may become an important limitation. A preselector would be helpful at these frequencies also.

Selectivity. The 390A has four mechanical filters of 16, 8, 4, and 2 kHz bandwidths, at 6 dB down. These same filters possess bandwidths of 19.4, 16.00, 5.85, and 3.7 kHz at 60 dB down, for shape factors of 1.85, 1.46, 2.00, and 1.2. (a shape factor of 1.00 implies a perfect selectivity). The 0.1 and 1.0 kHz bandwidths are achieved using the summation of the 2 kHz mechanical filter bandpass and that of a crystal filter. The mechanical filters provide excellent selectivity, and generally are capable of "splitting" two signals separated by 1 kHz or less.

Stability. No definite specifications for overall stability are called out in TM 11-5820-328-35; nevertheless, after a 1½ hour warmup period, a -470 Hz drift in a typical 390A was observed after a period of 8 hours. This is a rather pessimistic figure, in my experience, as in this instance, the internal ovens were turned on shortly before the end of the warmup period, and a resultant residual shift of -270 Hz is included in the figure of overall, longterm drift. 100 Hz per hour is probably a pessimistic expression of the midterm drift.

Strong signal handling capability. This is ability to receive weak or strong signals without intermodulation distortion or cross modulation, when an intense signal or intense signals are present on adjacent channels. The 390A has very good strong signal handling capability, the best that I have observed in any receiver that I have operated, although there may be better receivers in this respect. The strong signal handling capability is of crucial importance to the MWBC DXer who resides in an area of intense MW signals, and only somewhat less so to the SWBC DXer.

Image Rejection. I have observed no images in the 390A in either the MW or SW bands, despite attempts to induce them. This is partially due to the use of three tuned RF stages ahead of the first mixer below 8 MHz. At 1 MHz, the image frequency is 35 MHz, and at 7 MHz it is 41 MHz. Above 8 MHz, the 390A is dual conversion. At 8 MHz the image frequency is 14 MHz; at 16 MHz it is 22 MHz; at 31 MHz it is 37 MHz. It is considered likely that images at about -70 dB can be observed by someone who has a signal generator, the output of which is calibrated. If anyone who can perform an image measurement on a 390A will advise me, I will include the results with a sequel to this review.

Frequency conversion scheme. The 390A tunes from 500 kHz to 32000 kHz in six bands. These bands are tuned in 1 MHz spreads (except the first band of 500 to 1000 kHz), and the resulting superficial appearance is that it tunes in 30 1-MHz bands and one 500 kHz band. These bands consist of 2 to 1 tuning spreads, and are (1) 500-1000 kHz; (2) 1000-2000 kHz; (3) 2000-4000 kHz; (4) 4000-8000 kHz; (5) 8000-16000 kHz; and (6) 16000-32000 kHz.

Below 8 MHz, the signal frequency is additionally mixed with a crystal-controlled, local oscillator frequency of 17 MHz to yield a first, variable IF frequency of 17500-25000 kHz. This variable IF frequency is then subtractively mixed with one of eight frequencies generated by a second crystal-controlled local oscillator. The resultant is a second variable IF frequency of 3000 to 2000 kHz. This is subtractively mixed with a frequency of 3455 to 2455 kHz generated by the VFO, to yield a 455 kHz fixed-frequency IF, which is then processed in the typical manner.

Above 8 MHz, the first mixer and the 17 MHz crystal oscillator are bypassed, and the signal frequency is fed directly into a mixer, where it is mixed subtractively with one of 24 frequencies generated by the second crystal oscillator, after which the frequency conversion scheme is identical to the 500 to 8000 kHz scheme.

The six bands, the first crystal oscillator, and the frequency of the second crystal oscillator, are selected by the MEGACYCLE CHANGE control. The frequency of the tuned RF signal circuits, of the first variable-frequency IF tuned circuits, and of the second variable-frequency IF tuned circuits, are differentially controlled by the MEGACYCLE CHANGE and the KILOCYCLE CHANGE controls. The VFO frequency is directly controlled by the KILOCYCLE CHANGE control.

Frequency calibration. The 390A frequency readout is numerically calibrated at 1 kHz intervals, with intermediate markings at 200 Hz intervals. When properly calibrated at the nearest 100 kHz calibration point, errors of plus or minus 150 Hz maximum were observed against exactly known frequencies in a typical 390A. The 390A uses a unique, odometer-type, Veeder-Root, numerical counter. The left two digits are driven by the MEGACYCLE CHANGE control, and represent MHz and tens of MHz. The right three digits are driven by the KILOCYCLE CHANGE control, and represent kHz, tens of kHz, and hundreds of kHz.

Calibration procedure. Calibration is effected by setting the 390A readout to an exact 100 kHz calibration and by setting the FUNCTION switch to CAL. This disconnects the antenna from the receiver front end and turns on the 100 kHz calibration generator which generates a calibration point at every 100 kHz interval from 500 kHz to 32000 kHz. Then the BFO PITCH control is set to "0", and the BFO is energized. Then the ZERO ADJUST control is tightened down. This disengages the VFO from the frequency readout. The KILOCYCLE CHANGE control is manipulated for a zero beat. The ZERO ADJUST control is then

loosened up, the FUNCTION switch is returned to AGC (or MGC), and the set is thereby calibrated. This should be performed whenever the 390A is changed from one MHz range to another, if exact frequency readout is desired. Otherwise, there may be a residual error of up to 2 kHz when passing from one MHz range to another.

**Prices.** Prices charged for 390As vary, depending on whether the individual set is purchased through a private sale, or from the commercial market. A minimum price of \$400 to \$450 for a 390A in a private sale is possible. Fair Radio Sales of Lima, Ohio (see address in the reference to technical manuals) has 390As available for \$400 "repairable", and \$550 "checked". Bill Slep, P. O. Box 100, Otto, North Carolina 28763, sells 390As at prices beginning at about \$550 and progressing according to condition. Dames Communications Systems, 10 Schuyler Ave, North Arlington, New Jersey 07032, has 390As beginning at about \$650 and progressing to about \$1000 for a new set (which price is reasonable, see the Dames ad on page 215 of WRTH 77). The author, Charles Taylor, 936 N. Temple Ave., Indianapolis, Indiana 46201, being a true dolt for 390As (having been to school on them in the U.S. Navy, and having worked on about 100 of them in and out of the Navy), generally has both a 390 and a 390A set aside, besides his own. A brief query will suffice to bring more details.

## CONCEPCIÓN

RADIO UNIVERSIDAD DE CONCEPCIÓN, CHILE

by Brandon Jordan, Memphis, TN

Universidad de Concepción is located in Concepción in central Chile. The station was founded in 1959 by the university's president, Professor David Stitckin. They used a mediumwave transmitter of one kilowatt and an FM transmitter of 75 kilowatts. In 1970 new Philips equipment was imported from Holland which allows them 10 kilowatts on both medium and shortwave. A new FM stereo transmitter was also bought the same year which began operating regularly in 1974.

Universidad de Concepción is a cultural station in which it's goal is to inform, provide culture, and to entertain. The goal of the shortwave programs directed overseas is to inform on Chilean reality and to counter anti-Chilean propaganda.

They have three daily news bulletins of 15 minutes each, plus nineteen news bulletins of five minutes. To carry out this work they have an Informative Department with a team of three journalists plus the services of the Chilean information agency ORBE, and German information agency DPA which provides news at a national and international level.

When the present director, Carlos Godoy Rocca, took office in November of 1973, they began broadcasting programs at 1130 to 1300 GMT in English and Spanish. The broadcast is repeated from 2000 to 2200 GMT. From 2300-0400 GMT they broadcast separate programs. The present frequencies are 6135 kHz and 680 kHz. The technical department appreciates all reception reports and correct reports will be verified. They also have a pennant which is sent on request.

## TWR Guam

TRANS WORLD RADIO - GUAM

by Aaron Hywarren, Winnipeg, Manitoba

Trans World Radio Guam began its first shortwave broadcasts from Agana in early September 1977. KTWR (shortwave) and KTWG (mediumwave) are Trans World Radio's newest radio voices.

KTWG operates on 770 kHz with one Harris-Gates BC 10H 10 kW transmitter from its 328 foot vertical tower located at Nimitz Hill, Guam. KTWG broadcasts 18 hours daily to Guam, the Marianas, Micronesia, and to parts of the nearby Philippines. Languages used by KTWG include English, Korean, and Vietnamese, with more to be added in the near future.

KTWR began its first regular transmissions on 4 September 1977. KTWR transmits from Merizo with two Harris-Gates SW-100, 100 kW transmitters and two TCI Model 611 four element, four band, slewable curtain antennas which operate in the 31, 25, 19, and 16 metre bands. KTWR currently broadcasts to China, the Soviet Far East, and to South East Asia in English, Japanese, Cantonese, Mandarin, Cambodian, Vietnamese, Russian, and in Laotian. Trans World Radio Guam plans to add more languages this spring.

Broadcast times are from 0900-1500 in the 31, 25, and 19 metre bands, and at 2100-0130 in the 25, 19, and 16 metre bands as follows: (all times GMT)

9640 kHz at 0915-1300	17830 kHz at 0000-0100
9670 kHz at 1300-1500	17855 kHz at 0030-0130
11705 kHz at 1100-1500 and at 2100-2300	
15115 kHz at 0900-1100	
15175 kHz at 2200-2400	

It seems that the best times for reception of KTWR here in North America is at 1100 till about 1300 on 9640 and 11705. Both of these frequencies are subject to change soon as they both suffer from extreme QRM. Another good time to try for KTWR is at 2200 on 15175, but this frequency, like others mentioned, suffers from heavy co-channel QRM.

Transworld Radio Guam welcomes all reports, comments, and requests. TWR Guam answers all mail promptly with a verification card if the report is correct, and also has available an attractive window decal. Return postage is appreciated as, within the first months of broadcasting, mail response has been large, and the number of letters received each day is growing rapidly. Please address all correspondence to:

Trans World Radio Guam  
KTWR-KTWG  
P. O. Box CC  
Agana, Guam 96910

## QSL

QSL - WHERE ARE YOU?

by Dale Bohlke, St. Louis Park, MN

For many shortwave listeners, collecting QSLs is a fascinating part of their hobby. The challenge of attentive listening and the anticipation of receiving a card from that distant country is also pleasurable to me. But am I doing an adequate job of reporting? Are my details too vague? What type of return should I expect from my reception reports?

To attempt to answer this I reviewed the scoreboard section of the August FRENDX and made some interesting tabulations.

The group was arbitrarily divided into three sections: The upper 40 reporters, the middle 50, and the lower 40 reporters. Only countries heard and verified were used in tabulation since some people are less active in pursuing QSLs from each station they hear.

Results:	% verified
Top 40	75
Mid 50	68
Lower 40	71
Overall	about 71%

I would have expected the more experienced DXer to be more efficient. The middle group was much lower and the lower group had a greater percentage than I expected. On the basis of this data, I think it is reasonable to expect about 70 percent verification of those countries reported to. If your results are better, you are doing very well! If your results are significantly lower, there are several possible reasons, among these are:

1. Are you sending insufficient or inaccurate data?
2. Are you writing legible reports?
3. Is your return address complete?

Many shortwave stations will send instructions for a good reception report at your request. Remember you are providing a service to the station when you provide accurate, detailed information about reception in your area. As a courtesy they are sending you a QSL.

## ETLF-RVOG

GOSPEL RADIO SHUTDOWN-RVOG

The following article appeared in the October 1977 issue of ONE WORLD, the official magazine of the World Council of Churches and was sent to SWC by David Felty of Wilmington, OH. David remarks in his cover letter:

"Regular listeners to such stations as HCJB, TWR, WYFR, Adventist World Radio, Vatican Radio, etc., might find one statement in paragraph 3 a bit strange when it states: "For the first time, radio was used for Christian ministry on a large scale." Some explanation of what is meant is in order: (1) RVOG was officially sponsored by an actual "church" and not just a collection of interested individuals as are HCJB, WYFR, etc. (2) RVOG was sponsored by a denomination (actually a world confessional family of denominations, the Lutheran World Federation) which belongs to the World Council of Churches. Adventists and Roman Catholics, for example, often cooperate in the work of the WCC, but are not "official" members. (3) RVOG prided itself in using "local" and "target area" personnel and avoiding "cultural imperialism" to an extent not found in other religious broadcasting. (4) RVOG made an effort to apply their Christian message to social, economic, and political issues, as well as providing traditional "sermons", etc. In other words, they were shut down because they were too successful and were out of harmony with the intentions of the new Ethiopian regime!"

## Gospel Radio shut down but not silenced

The bearded visitor from far-away Germany was deeply impressed. "Christians", he said, "certainly know where to look for attractive places." He was referring to a cluster of buildings on the outskirts of Addis Ababa, situated on the gentle slope of a hill and dominated by two slim red and white steel masts: Radio Voice of the Gospel (RVOG), the shortwave station of the Lutheran World Federation (LWF), located in the Ethiopian capital.

The station was silenced on March 12, 1977, by the Ethiopian authorities. Soldiers with machine-guns mounted to their vehicles moved in and ordered the staff to stop their work immediately. Later, Radio Voice of Revolutionary Ethiopia started broadcasting from the very same premises. But with the nationalization of RVOG, an important voice in the choir of African mass media had abruptly ended.

Radio Voice of the Gospel started in 1963. In many respects, it was a unique venture. For the first time, radio was used for Christian ministry on a large scale. The station was also unique in its structure, multilingual approach and technical facilities. They made it possible to receive the message practically all over Africa, in the Middle and Far East and many parts of Southern Asia.

### Thirty-one hours a day

At the time of its closure, the station employed some 200 people from a dozen different nationalities in Addis Ababa alone. Most of them were Africans — important for a station aimed at a largely African audience. Some other figures: 31 hours of programmes were broadcast every day in up to 16 languages — equivalent to about 20 kilometers of tape. There were 21 daily newscasts in seven different languages. Close cooperation existed with more than a dozen studios across Africa and Southeast Asia.

RVOG was teamed together with these studios from the beginning. They produced programmes which were then sent to Addis Ababa to be transmitted back to the originating areas. The area studios not only produced tailor-made programmes according to the specific needs of their regional audience. They were also a decisive factor in the station's efforts to preserve cultural integrity — one of the



RVOG studio in Addis Ababa

most serious reproaches of developing countries against mass media in industrialized countries and their coverage of Third World events.

Naturally, RVOG faced criticism: "A number of your topics, particularly those dealing with issues currently sensitive to the East-West struggle, were subtly but extremely biased," wrote a listener from Addis Ababa shortly before the take-over. At the same time, another listener took a different view: "It is such a relief to listen to a radio station that is not full of communist propaganda."

The letters illustrate another unusual feature of RVOG's work; permanent contact with the audience. In Addis Ababa, a special department was busily working on audience relations, answering a constantly growing influx of letters from all over the service areas, among them reception reports from listeners in Panama, Bangladesh, New Zealand and Malta. The same unit also trained radio technicians and producers in Addis Ababa and elsewhere, and just before the take-over a studio in Southern Sudan had started working on its own.

### The way ahead now

Now, the future of that studio within the Christian communication framework appears to be handicapped. There are, however, some plans under discussion within the LWF aimed at making use of existing possibilities. One proposal is to redefine the whole concept of the studios and to have them work as media centres of the local churches. These media centres could also provide training facilities for church leaders responsible for communication ministries through a variety of media. Other plans call for an intensified search for other broadcasting outlets and closer cooperation between the studios and the states they serve. All this thinking has been growing in LWF communications work for some years. The sudden national-

ization, however, will definitely speed up the decision-making.

There is little doubt that decentralization of radio work will be the cornerstone of the LWF communication involvement in future years, as another station of RVOG's dimension appears to be extremely unlikely. It would cost around US\$ 20 million, require qualified technical and editorial staff, and pose the problem of finding a site free from all sorts of legal limitations.

### The lessons learnt

The 14 years of RVOG's work proved the immense power of radio as a vehicle for Christian communication, but at the same time, its inherent limitations have begun to show. Some of the shortcomings stem from the very nature of the medium (e.g. the fact that radio tends to reinforce rather than change attitudes), while other difficulties are related to how the churches saw the role of the studios and the way they operated.

RVOG also proved some other things: a technically sophisticated medium can have a natural place in the ministry of the churches, local churches can carry the responsibility for this outreach, and ecumenical involvement is not just an obligation with a public medium but a great asset.

In the words of the LWF secretary general, Dr Carl H. Mau, the LWF has been grateful "to have had the opportunity to serve through the powerful instrument of RVOG for 14 years". He added: "The expertise gained, and much of the global facilities being used, will continue in this service."

The final shape of this service has not yet emerged. But there is no doubt that silencing RVOG in no way silences the churches' ministry of proclamation. A branch of Christian communication has been cut off, but the tree will keep growing.

Peter Becher

SPECIAL NOTE—Sid Arnow of Teletron Data Corp., Box 84, Kings Park, New York 11754, the manufacturer of the SLINKY antenna writes to point out that the article by Dr. Stuart in the December SWC refers to adapting the Amateur radio version of the SLINKY (model 80/40/20) to shortwave broadcast band use. It does not apply to the SLINKY Model SWL-1 which comes with complete tuning information for all shortwave bands between 80 and 6 metres.

**Mailbag**

James Halsema, Washington DC, sends a notice of a new Panasonic shortwave portable, the RF-2800LBS/MB which is available in Japan. Tentative plans are for introduction into the U.S. It is an AM/FM portable with shortwave. Its main feature is a digital frequency indicator for SW bands. If anyone has seen this receiver or has more information, a review would be in order for SWC.

DX DISTANCE, the following is offered by Bill Parkey, 1236 Royal St. George, Naperville, Illinois 60540

Have you ever wondered what the distance was between a foreign DX station and yourself? I have. So, I decided that I would make a formula to find this distance.

The only information that you need to know is the latitude\* and longitude\* of your QTH and that of the foreign station! The formula is below. When finding the sin, cos, and arc cos, the latitudes and longitudes must be in radians. To convert just multiply the degrees by .0174532 then take the minutes and multiply them by .0002908. Add the two together and use this number when calculating the trig functions. When you find the arc cos it must be in radians, if it's not, then do the above to convert it to radians.

Now after you have solved the equation for the multiplication factor, multiply it by 3956.665 (radius of earth in miles). The answer is the distance between the two points in miles.

LAT1 = latitude of first place, LONG1 = longitude of first place, LAT2 = latitude of second place, LONG2 = longitude of second place.

Multiplication factor =  $\text{arc cos}(\sin(\text{LAT1} + 1.5707963) \times \sin(\text{LAT2} + 1.5707963) \times \cos(\text{LONG1} - \text{LONG2}) + \cos(\text{LAT1} + 1.5707963) \times \cos(\text{LAT2} + 1.5707963))$ .

Distance = Multiplication Factor x 3956.665

\*North and East directions are considered positive!

South and West directions are considered negative!

If this method seems too complicated to you, I can do it for you with the utmost speed because I have it stored in a computer! Send a self-addressed envelope with the coordinates of the places, (if you can't obtain the coordinates, I can look them up for you, just send me the name of the city and country), send as many as you want, no job is too big! Address above.

Paul C. Gunn, Aurora, IL suggests that the solid state power supplies for certain tube receivers that were described in the July FRENDX may destroy the collectors value of old receivers. He suggests that a tube base or else a "socket saver" such as is available for use in tube testers and wire the diodes into the socket. This can then be plugged into the socket in place of the tube. Solid state replacements are commercially available for some tubes anyway and can be plugged in. With this method the receiver can be operated with either tube or module and there is no need to modify the set itself. This may add to the cost, but may be worth it in resale value of old receivers to collectors.

Your editor notes that the 25 November issue of Science magazine (page 824) contains an article titled "Anomalous Solar Rotation in the Early 17th Century" by John Eddy and others. They examined the character of solar rotation for two periods in the early 17th century for which detailed drawings of sunspots were available. The first period (1625-1626) was 20 years before the beginning of the Maunder sunspot minimum, and the other (1642-44) was about the beginning of the Maunder event. Solar rotation during the earliest period was much like that today. In the later period, the equatorial velocity of the sun was faster by 3 to 5 percent. Equatorial regions rotate faster anyway, than the polar region, but the differential rotation was enhanced by a factor of three. This equatorial acceleration with declining solar activity is similar to that found in recent surveys of the sun. The authors correlate the change in rotation between 1625 and 1645 with the onset of the Maunder Minimum. There is not enough data available to predict the meaning of the modern rotational changes, but it may be related to normal changes during the 11 year sunspot cycle.

PROPAGATION FORECAST: 22 Dec to 17 Jan; solar activity will be low to very low except for the period 26 Dec to 9 Jan when it will become moderate at times. The geomagnetic field will be somewhat active 22-24 Dec, 29 Dec to 1 Jan, and 7 to 9 Jan, otherwise quiet to unsettled. Flare induced activity will be most significant after 29 Dec.

Good DX in the new year and resolve to write an article for SWC. 73s to all, JAL

# Listeners NOTEBOOK

JANUARY 1978



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

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

**ENGLISH SCHEDULES** ALBANIA (Cf Aug LN-2) The only changes in R. Tirana's EC sked are 6200 ex 9500 at 0700-0730; 9485 ex 9480 at 2030-2100. R Peking relay still sked to NAM at 0100-0200, 0300-0400 on 9780, 7120 (BBCMS)

ALGERIA R. Algiers resked probably 6/11, 1900-2000 on 890 ex-251 kHz. Also observed on unstable 7050, announced as 7145 (BBCMS 24/11) Noted at 1920 on 7055 (Kernick, UK, 1/12)

AUSTRALIA R. Australia announced it is broadcasting commentaries on the India-Australia cricket test matches beginning 2/12. On 21570 for SEAs & India; 15215 to NZ. The remainin two matches are scheduled: 2345-0715 on 7, 8, 9, 11, 12 Jan--the fourth test match from Sydney; and 0015-0845 on 28, 29, 30 Jan, 1, 2 Feb--fifth test match from Adelaide (BBCMS)

BANGLADESH R. Bangladesh sked at 0445-0515 on 15400/17890/21685; 1230-1300 on 17720/15520, 1815-1915 on 9500/11650 (A.E.M. Abdullah, Bangladesh, via WRTVH Newsletter via Leon Tannenwald via David Snyder, NY, Brooklyn DX Club, hereafter abbreviated WRTVH NL) Frequencies are actually 15402, 11652, 9495 (BBCMS 11/77) Dec LN-2 17590 prob. typo (gh) (BURMA) LN-11

CAMEROON has an experimental external service in EG, "R. Cameroon International", not in parallel with domestic service, first noted 5/12; runs 1630-1830. At 1700 on 5/12 and 6/12 the stn announced "You are listening to 'Mixed Grill', coming to you from the New National Station of R. Cameroon in Yaoundé and we are on the second experimental stage of our new transmitter for listeners abroad". It is a magazine programme of music, interviews and news. This was on 4850 only, which at 1830 joined DS for EG nx to 1845 (BBCMS 8/12) On 8/12 and 12/12, 9745 carried "Good Day Africa" until 1630, then French "Bonsoir Afrique" to 1830. On 10/12, however, 9745 was //4850 for "Mixed Grill" (BBCMS 15/12)

CHINA (Cf Nov LN-11) R. Peking uses many frequencies besides those in its published sked. Some (\*) are suppressed-carrier SSB, and presumably feeders, but what about the others? Here are additional freqs: 0000, 8300/6810. 0100, 17855/15165/12015/11455/11375/\*8450/8240/6825. 0200, \*17490/12015/11455/10865/8240. 0300, 17535/15165/\*11630/11375/10865/8240. 0400, 17535/\*11630/10865/8240. 0830 & 0930, \*15480/12450/\*8660. 1200 NAM 6995/5250. 1200 & 1300 SEAs \*8660/6590. 1400, 3985/3270. 1500, 6540/4020/3270. 1600 & 1700, \*6550/6540/5030/4020/3270. 1930 & 2030 N&Waf, \*6550/5030. 2030 & 2130 Eur 6590/6185/\*5090 and not on 6270 (via BBC MS 11/77)

CUBA RHC D77 to NEU 2010-2140 17885/11865. Rest N&C&SAm: 2050-2140 9685; 0100-0600 11725; 0330-0600 11760; 0630-0800 9525 (via Robbie Berezowski, Alberta)

EGYPT R. Cairo on new 6230 //9475 to NAM 0200-0330, noted 18 & 19/12 (Richard M. Utter, NY) A daring move, endangering life & limb, but getting the ARRL off their back for using 40m (gh) Time of EG to EU may have changed; GM has (SCDX 20/12)

ETHIOPIA V. of Revolutionary Ethiopia now hrd on 9610, 1500-1600 with news at 1530 (Oliver T. Goonawardena, Sri Lanka, 2/12) Note that it's no longer "Radio Voice..." and is also on 7165. DS in EG continues 1000-1030 on 7165/6185 (BBCMS 8/12) VÖRE announced that as from 9/12 EG would be retimed from 1500 to 1700-1800 (BBCMS 15/12) EG at 1000-1030 on 6185/8072/9610; 1500-1600 on 7165/7180/16015 (Frederick Willis, PA, SPEEDX Dec) Doubtful freqs! (gh)

FRANCE RFI "Paris Calling Africa" full sked for D77 (which means 6 Nov 77-4 Mar 78); at 1706-1754 on 15360/11930/11890/15425/11705/15300/11860/15210/9605/11965 (via Pickard, IL)

GERMANY EAST RBI D77: 0445 E&Waf 11875/6195. 0645 SEAs 17740/17700. 1200 SEAs 21540/17880/15115. 1315 CAF 17755. 1400 SEAs 21540/17880. 1530 SEAs 11975. 1800 Eaf 15170/15145, Waf 11875. 1830 Eu 9730/7300/7185/6115/6080. 2000 Waf 11975/9665. 2115 Eu 7260. 0100 & 0230 ENAm 9730. 0330 WNAm 11890/6080/5955 (RBI) Add 15255 at 1800; ea. 45 min long (BBCMS)

GREECE See LN-5 and apply the known EG quarter-hour times, presto-wise (gh)

INDIA AIR COS D77 same as WRTVH 77 except: E&SEAs 2245-0115 9535 ex-9590. NLAAs 2245-2415 9630/11815/11850. ANZ 1000-1100 15250 ex-15165 (Sudipta Ghose, India, WRTVH NL)

ISRAEL (Cf Dec LN-2) New sked at 1200-1230 for IBA: 21500/17815/17710/17685/15530/15405/15810/11655 (BBC MS 8/12)

JAPAN NSB has extended EG "Tokyo Forum-Get Together" at 1530, adding pop music request pgm at 1615-1700, on 9595/6055/3925 (Joe Tangredi, NV, SCDX 29/11) No they haven't; you misinterpreted my report. The 1615-1700 is in Japanese! (Tangredi, SCDX 20/12)

KOREA SOUTH R. Korea seems to have completely rescheduled. EG now: Am 11850/9640 at 0200, 0400, 1530, 2000. Eu 11850/9640/9600 1200, 1800. LAm 9640/9600 at 1000. SEAs on 9640/9600/7250 at 2300 (undated but presumably current sked via Sam Barto, CT, in Dec) Each for half an hour. The WRTVH NL had 'late news' of EG at 2030/2300/1000/1130/1600/0600/1130/1330/2000 on different freqs. R. Korea sked shows a certain set of frequencies for each target area, no matter what the time of day. Either this is incorrect, or their frequency management is based on some entirely false assumptions! (gh)

LEBANON R. Lebanon says it will soon again be on regular sked. (WRTVH NL) R. Lebanon Around the World, the external svc of the govt radio, has resumed following the civil war. EG to Af 11755 at 1830-1900. To Eu & Nam on 9680 from 0130 in EG and four other langs (Georges Choverly, Rosny, SousBois, France, SCDX 15/11) 11755 is announced as 11810. The 28/11 pgm included 10 mins of local nx, mx, and a travelog feature on Lebanon. Anmts indicated this was a relay of domestic service (BBCMS 1/12)

LIBERIA ELMA on revised sked. HS on 4770 weekdays at 0630-0900, rest same as WRTVH 77.

ES: 0700-0800 (Sun 0700-0730), on 11830; 1345-1615 Sun on 11860; 2015-2120 on 11855. (WRTVH NL) Last changed to 11860; RCI QRM to 2100; Liberian news at 2115 (W. Pickard, IL)

LUXEMBOURG R. Luxembourg EG on 6090 at 0000-0200 (WRTVH NL)

MALI Bamako now has EG nx Sundays at 1830 on 4783/4825/5995 (WRTVH NL)

NEW ZEALAND (Cf Dec LN-1) Because of QRM on 15130, RNZ moved to 15380 at 2300-0345, still using 15130 at 1800-2245 and 0400-0715. Rest of sked is same (Arthur Cushen, via DX Party Line 22/12) Chile, of course, being the source of QRM (gh)

NICARAGUA Amongst the DS programming on 5945, later 5920, is English "Nicaragua Calling" at 1815-1830, first noted 5/12, saying it was Mon-Fri only over Rdif. Nacional, Managua on 620 kHz. SW power was to have been raised from 50 to 100 Watts (sic -gh) by the end of December (BBC MS 15/12)

PAKISTAN LN-6

PHILIPPINES R. Veritas on two new outlets at 1400: 9590 ex-9605; 15115 ex-15215 (Victor Goonetilleke, R. Australia Japanese DX 11/12)

ROMANIA (Cf Aug LN-1) R. Bucharest changes: Af 0530-0600, 11830 ex-11840. As 1200-1230, 15345 & 17825. 1500-1530 9530/11940/15250. Pac 0645-0715 11940/15250/15380/17825 (RA 4/12)

SENEGAL "Dakar Calling" in EG heard at 1837-1900 on 4950 (SCDX 20/12)

SEYCHELLES FEBA D77 sked: SAs 0645(Sat Sun 0630)-0815 on 15160 azimuth 40° on broad beam, 100 kW; 1530-1640 on 11945 100 kW, 9545 25 kW, both 40° & broad. EAF 0400-0445 on 11800, 280°, broad, 25 kW. Broad beam means 68° at 6 dB points. Many other transmissions are on narrow beam of 36° at 6 dB points (FEBA via David Walcutt, IL)

SOUTH AFRICA The Oct-May freqs for SABC HS are 11790/9680/4835/3965. Springbok Radio, also in Afrikaans, 11935/9710/4810/3980. Radio Five on 7170/3320 (BBC MS 24/11) SPAIN LN-6

SRI LANKA SLBC: All-Asian svc in EG 0030-0230 on 6005/9720/15425; 0230-0430 9720/11955/15425; 1230-1730 6075/9720/15425. EG to Au 1030-1130 on 11835, to Japan on 15120; to SEAs on 17850. 1845-1945 to Eu/GB/Saf/ME on 7190/9720/11955 (R. Australia Japanese DX 4/12) No, at 1845-1945 15120 and 17850 are for EAI; and 7190/9720/11800 are for Eu. Reception reports are requested to: J.A. Herath, Supt. Engr., SLBC, Torrington Square, Colombo 7. Republic of Sri Lanka (Oliver T. Goonawardena, S.L., 2/12)

SWEDEN (Cf Dec LN-1) R. Sweden made these changes effective 7/12: At 1400 on 1790 ex-15305. 2300 on 9605 ex-6120. 0030 on 9505 ex-9620. 0230 on 9505 ex-9695, all involving EG to Nam, as well as some involving other langs at adjacent times (gh) TRISTAN LN-0

TAIWAN We don't often see powers given for BC xmsns, but here they are for EG: 0100-0200 Nam 11825-25 kW/15345-25/15425-250/17890-50; 0300-0350 Nam on 15345/17890, and to ANZ 11825. 2130-2230 Eu on 9510-50/9600-250/9685-25/11825/11860-50/15225-100/17720-50/17890 (WRTVH NL)

THAILAND R. Thailand noted in English at 0100 on 11905 (GADX via Goonetilleke, RN 22/12)

UKOGBANI Reversing a move made early last summer, BBCKS to Nam at 2245-0330 has moved back to 7325 from 7320, to avoid R. Peace & Progress 7420, e.g. Creole 2300-2330. Another Moscow xmtr is on 7325, but weaker. 7325 is now announced (Richard Wood, NH, 22/11)

USA KCEI D77 Tue-Sun 0630-0700, freq not given. 0700, 1000 on 5980 to FE (WRTVH NL) KCEI has EG to Asia at 1000-1100 on 5980, 250 kW (KCEI 12/77) No mention of 0630 or 0700! (gh) Main freqs used by VOA during D77 for its English service are shown on next page....

(USA) To Eur, 0300-0700 on 5995/6040/7200/9670, 1700-2200 on 3980/6040/7170/9760/15205. To NAF, 0300-0700 on 5995/9670, 1600-2200 on 15205. To E&S&Waf 0300-0730 on 3990/6035/7280/9740, 1700-2300 on 3990/7195/15445/17710/17870. To SAs, 0100-0300 on 7110/11740/11760/15185/15215/17790, 1300-1800 on 7110/9670/9760/11935/15395. To NEAs, 2200-0100 on 6185/11760/15250/15290/17895, 1100-1500 on 6010/6185/7165/9555. To SEAs, 2200-0100 on 6185/9545, 1100-1500 on 6110/9760/15155. To Oceania, 2200-2400 on 15290/17820/21610, 1100-1400 on 5955/9730. To Lam, 0000-0200 on 6130/9650/11740/15205 (WRTVH NL)

USSR R. Moscow planned to make a few frequency changes every month in the NAM service. For 3-31 January: 2230-0100 on 17.72/15.14/15.18/15.45/12.05/7.10/7.11/7.19/7.20/7.21/7.44/5.94/7.6.12. 0100-0300 on 15.14/15.45/12.01/12.05/9.58/9.70/7.10/7.11/5.90/5.94/6.12. 0300-0400 on 9.68/9.70/9.76/7.11/7.19/7.20/7.44/5.94/6.12. Pacific Coast Service 0330-0730 on 9.54/9.58/9.61/9.73/7.13/7.17/7.26/5.90/6.15. 1 Feb to 4 Mar: 2230-0100 on 15.14/15.45/12.01/12.05/15.45/12.05/9.76/7.10/7.13/7.17/7.19/7.20/7.21/7.44. 0100-0300 on 15.14/15.45/12.01/12.05/9.58/9.70/7.10/7.11/7.13/7.17/7.19/7.20/7.44.

PCS 0330-0730 on 11.69/9.50/9.54/9.58/9.61/9.73/7.17/7.26/5.90. From 5 Mar into April: 2230-0100 on 17.72/15.14/15.18/15.45/12.05/9.68/9.66/9.76/7.13/7.17/7.19/7.21/7.44. 0100-0300 on 15.14/15.45/12.01/12.05/9.58/9.66/9.76/9.78/7.13. 0300-0400 on 9.68/9.70/9.76/7.13/7.17/7.19/7.20.

PCS 0330-0730 on 15.14/11.69/12.01/9.50/9.54/9.58/9.73/9.78. (RM sked via Mac Leonhardt, adapted by gh who adds: many of the freqs are actually .005 MHz higher than shown) Compare that official version with the BBC's monitoring, now out of date, as of the season outset in late Oct/Nov: 2230-2330 on 17720/15455/15180/15140/12050/9635/7440/7300/7205/7195/7130/7115/7105/6125/6020/5940/\*5815/4860. 2330-0100 on 17720/15455/15180/15140/12050/9635/\*7925 from 0000/7440 from 0030/7300/7205/7195/7130 to 2400/7115/7105/6125/6020 to 0030/5940/\*5815 to 2400/4860. 0100-0130 on 15455/15140/12050/9635/\*7925/7440/7205/7195/7115/7105/6125/5940/4860. 0130-0200 on 15455/15140/12050/12010/9665/9635/9470/\*7925/7440/7205/7195/7115/7105/6125/6020/5940/5905/4860/Sofia 6070. 0200-0300 on 15455/15140/12010/9665/9635/9580 from 0230/9470/\*7925/7440/7205/7195/7115/7105/6125/6020/5940/5905/4860/Sofia 6070. 0300-0330 on 7440/7205/7195/7115/7105/6125/5940/4860/Sofia 6070.

0330-0400 on 12010/7440/7205/7195/7115/7105/6125/5940/4860/Sofia 6070. PCS 0330-0730 on 9735/9665/9635/9610/9580/7260/7175 from 0400/7130/6150/6020 from 0400/5905. \*SSB (BBC MS)

URUGUAY (which may be considered alfa-after Union of SSR...) SODRE International service in EG at 2330-0015 on 11885; 0230-0315 on 9515. Antennas beamed to N&C&SAm & Europe (Marcelo E. Rybak, Argentine DX Club International Sept issue, published in Dec) SODRE heard with EG nx at 0330-0341 on 26/11 on 9515--other nights SP at this time (David Kernick, UK) SODRE heard at 0200-0215\* EG & SP, on 9515, also gave 11885, both former R. Sarandi QRGs (David Crawford, FL) Uruguay went on DST (GMT -2h) on 4/12, thus retiming the IS to an hour earlier. 10-15 min of EG nx sked weekdays at 2200, 2330 on 11885; 0100, 0230 on 9515, times approximate and may have changed (Moisés Primo, Montevideo, SCIX 20/12) (What a mess; LN-9)

UZBEK SSR R. Tashkent heard at 1200 on 5975/6025/9540/9600; also at 1400 (Utter, NY) (gh)

VIETNAM VOV ES to Eu 2030-2130 currently on 7277/10040 (BBCMS 15/12)

**OTHER SCHEDULES** **AFGHANISTAN** R. Kabul SW sked: HS on 3390(50 kW) 0130-0330, 1330-1735. On 4085 (10 kW) 1330-1730. 4775 (100 kW) 0130-0330, 1430-1735. 6000 (50 kW) 0730(Fri 0330)-0830, 1130-1330. 7200 (10 kW) 0730(Fri 0330)-0830. Victor Goonetilleke reports however that the HS since Aug signs on an hour earlier, at 0030. FS at 1000-1030 on 15390, 1030-1300 on 15365, 1300-1430 on 4775, langs & times unchanged (WRTVH NL)

**ALBANIA** Besides the well-known R. Peking EG relays, Tirana also relays Peking on SW in Hausa at 2100-2130 on 9500; Portuguese 2200-2300 on 7200; Spanish 2300-0100 on 9660/7120 and 0200-0300 on 7120/6150 (BBCMS 12/77)

**ALGERIA** The 1900 EG from Algiers is followed by SP at 2000-2100 and Voice of the Free Canary Islands at 2100-2200, on unstable 7050/890 (BBCMS 24/11)

**BANGLADESH** R. Bangladesh non-EG FS sked: 0515-0545 AR to ME 21685/17890/15402; 1115-1145 Nepalese on 9495/7095; 1400-1500 UR to India & Pak on 15530/11890; 1600-1630 HD to India on 11652/9495; 1645-1815 Bengali to Eur on 11652/9495 (BBCMS 11/77) HS sked: 0000-0400(Sun 0430) on 6145; 0600-1000 on 7150/9615; 1030-1115 on 7095/9615; 1115-1315 on 9615; 1315-1330 on 4790; 1330-1730 on 3965/4790 (A.E.M. Abdullah, WRTVH NL)

**BENIN** Sked on 4875, using 50 or 30 kW: W. 0415-0800, 1300-2300; Sun 0600-2300 (WRTVH NL)

**BOLIVIA** (Cf Oct LN-4) Lots of new info, from La Paz sources via Tor-Henrik Eklom, in Oct DSWCI SW News except when specified, direct from Tony Jones' monitoring in Paraguay, 12/12: 3255 CP185 R. Paititi, Guayaramirim (sic), Benf; Dir: Alberto Suárez S. (Jones:) actual-ly on 3260, ex-4425.

3285 CP189, new, R. Monteagudo, 0.3 kW, Monteagudo, Chuquisaca, Dir: Ariel Tarán B. 10-04

3350 R. 27 de Diciembre, Villa Montes, ex-3490

3360 CP173 new R. Agricultura, CP173, Portachuelo, Dir: Raúl Paniagua B. 1100-0300 04

3380 CP167 R. Cumbre, 1 kW, new, La Voz del Bismuto, Tazna, Potosí. Dir: Pedro Pinto B. 11-3420v R. Charcas, 2230-0200, ex-3396 (Jones)

3460 R. 3465 (sic) R. San Miguel, Cas. Ø, San Miguel, Benf (continued...)

4140v (reported) nom. 3958, R. Comarapa, Alcaldía Municipal, Comarapa, Santa Cruz  
 4640 R. Em. 23 de Marzo, 1300-?, 2200-0300v (Jones)  
 4808v CP 181, R. La Voz de la Frontera, Puerto Suárez, Sta. Cruz. Dir: Leonardo Arteaga Ríos  
 4970v R. Juan XXIII is inactive---off the whole of Oct, Nov, and up to 12/12 (Jones)  
 4980 (nom 4965) CP90/CPI26 R. Juan XXIII, San Ignacio de Velasco, Sta. Cruz. Dir: José Barrientos  
 4980 CP162, 5kW, R. Batallón Topáter, Oruro. Dir: Abel Martínez M.  
 5020 CP109, 0.5 kW R. 2 de Febrero, new. Vaca Diez 400, Rurrenabaque, Bení. Dir: Roger Arze Salmón. 1000-0400  
 5020 CP178 0.15 kW new R. Cuarto Centenario, Correo Central, Tupiza, Potosí. Dir: Agustín Leyton. 1100-0400.  
 5030 CP170 1 kW new R. Libertad, Correo Central, San Borja, Bení. Dir: Eulalio Arana Vaca; 1000-0400.  
 5312 R. Roboré inactive since early Oct (Jones)  
 5955 CP60 1 kW R. Pío XII, Siglo XX, 0900-0400.  
 5965 CP177 2.5 kW R. Nacional Huanuni, Correo Central, Huanuni, Oruro. Dir: Felipe Denery L. 0930-0300.  
 6015 R. Ánimas, now 1030-1800, 2100-0400 (Jones)  
 6125 CP161 5 kW new R. Stentor, Casilla 1140, La Paz. Dir: Fernando Chiappe. 1100-0400.  
 Ekblom adds that R. Illimani, La Paz, 10 kW on 6025/4945 now sked 24h but is SW really in use? Not seen reported for years. Jones adds: watch out for utes on 3425 and 4640!

BULGARIA Since 20/11, R. Sofia obs on 17820 1235-1255 new ES pgm in SP to Iberia; timing corresponds to former R. España Independiente, believed from Sofia, last obs on 5/10. (BBC MS 24/11) In addition, SP from R. Sofia to Iberia 2005-2025 on 7215, also matching exactly timing of former REI, last obs at 2005 on 28/9 (BBCMS 1/12)

BURMA An unID Burmese stn is obs on 4980, with no IDs, but including news items previously broadcast by BBS in Rangoon about political & military developments. Not //BBS on 5985 or 4725. Announces wavelength as 59.3m (which would be 5033.7 kHz -gh). Obs on this sked at 1030-1330. Sun: entirely in Burmese. M/W/F: 1030 Shan, 1100 Pa-o, 1130 Kayah, 1200 Lahu, 1230 Burmese. T/T/Sat: 1030 Haw, 1100 Kachin, 1130 Loi-la, 1200 Burmese (BBCMS 24/11 & 8/12) It is about time Burma's second largest city, Mandalay, pop. 393,000, and some 585 km from the only known radio station in the country at Rangoon, had its own station (gh)

CHINA R. Peking DS Pgm I as from 21/11: 2000-1735, but all HF are silent Tues 0600-0840.  
 17605 0430-0730, 15590 0003-0930, 15550 0103-0750, 12420 2333-0430 & 0733-1100, 12120 2300-0800 (Fri-0500), 11330 2333-1040, 11290 2000-1735, 10245 2303-2330 & 1100-1735, 9080 2000-2330 & 0023-0815 & 1103-1735, 9064 2000-1735, 7935 2000-2400 & 0933-1735, 7504 2000-1735, 7095 2000-0100 & 1100-1735, 6750 same, 6665 2000-1735 but Fri 2200-0457 & 0830-1735, 6225 2000-0100 & 1100-1735, 5880 2000-0100 & 1100-1735, 5860 2000-0100 & 1100-1735, 5320 2000-0100 & 0753-1735, 4800 2000-0100 & 1100-1735, 4460 2000-0030 & 0818-1735, 3450 2000-2300, 3220 2000-2330 & 1043-1735. R. Peking DS Pgm II at 2100-1600 (Wed, Fri -1700) exc. Wed & Fri 0600-0950 when all HF are silent: 15030 0000-1100, 12200 0133-0800, 11505 0000-1200, 11040 0003-0900 (Tue-0530), 10260 2333-1115, 9670 0700-1030, 9510 0700-1600, 9020 2100-1700, 8320 0700-1115, 8010 0700-1600, 7770 2100-1700, 7190 0033-0840, 6345 2100-2400 & 0903-1700, 5163 2100-2400 & 1033-1700, 5075 2100-0130 & 0803-1700, 4850 2100-2400 & 1118-1700, 4250 2100-0030 & 0843-1700, 3290 2100-2330 & 1108-1700. (BBCMS 24/11) R. Peking DS for minority groups: Uighur 0030-0125 & 1300-1355 on 9920/8565 & Urumchi 7050/4110. Kazakh 0130-0225 & 1400-1455 on 9920/8565 & Urumchi 5440/4970. Korean 0400-0455 & 1000-1055 8260/6430; 2130-2225 6430/4620. Mongolian 2230-2325 5915/4190 + Hailar 6080/3900; 0500-0555 7660/6645 + Silinhot 4953, Huihehot 4895/4068, Hailar 6080/3900, Tunghsheng 6045; 1200-1255 5915/4190. Tibetan 2330-0025 9900/8565; 1100-1155 9920/7080 + Lhasa 9653/9490/4035; Lhasa only at 0600-0655 on 9653/9490/4035 (BBCMS 1/12). Peking broadcasts to Taiwan 2000-0610 (Sun-0705), 0830-1900: 15880 0015-0610, 15710 1341-0610 & 0830-0957, 11100 2315-0610 & 0830-1114, 9170 2200-0610 & 0830-1259, 6790 2000-0014 & 0830-1900, 5125 2000-2340 & 0958-1900, 4770 2000-2200 & 1115-1900, 3830 2000-2200 & 1300-1900, 3360 2000-0130 & 1000-1900. Relayed by PLA Fukien Front Stn at 2100-2115, 0400-0415, 1200-1215, 1700-1715. PLA Fukien Front Station to Off-shore Islands & Taiwan, Net One in Std. Ch & Amoy 1000-0530: 7850 0000-0530, 6765 1000-1150 & 0000-0530, 5900 1000-1215 & 2311-0530, 5265 1000-1259 & 2243-0530, 5240 1000-1259 & 2241-0530, 4330 1000-1800 & 2240-0530, 4045 1000-1800 & 2240-0530, 3640 1300-1930, 3535 1300-2240, 3000 1216-2310, 2490 1151-2359. Net Two 0230-0745 Amoy, 0745-0945 Std Ch, 0945-1900 Amoy: 8195 0230-1000, 7380 0230-1000, 7025 0230-1126, 6400 0230-1159, 6000 0230-1256, 5770 0230-1100, 5170 0230-1425, 4840 0230-1600, 4380 0230-1700, 4140 1101-1900, 3900 1127-1700, 3400 1000-1900, 3300 1200-1900, 3200 1000-1900, 2600 1257-1900, 2430 1426-1900. R. Peking ES in Russian begins every hour on the hour between 1000 and 0400, also at 2130 & 2230. 0300 is reversed-tape only, on SSB 17490/12450/11455/8425/8260/6995 from one site; 9365/7800 from another; 15085/11685; 15385/15255/15115/14975; 15670/15045/11600 each group from different sites. Reversed tape also at 0900 on 8260/5220 and 1830 on 6550/5030. (BBCMS 11/77) Since this material is very space-consuming, FRENDEX readers will have to convince me it's worth carrying in the future (gh)

**DENMARK** For D77 R. Denmark ES in Danish only sked as follows, all on 15165. 0900-1000 FE & Au, 1100-1155 Grønland, 1200-1300 Nam, 1305-1405 Carib, 1410-1510 E Medit & Eaf, 1515-1615 SAs & Pers Gulf, 1620-1720 Nam, 1730-1800 Grønland, 1815-1915 W Medit & Waf, 1930-2030 Sam. The Greenland beam is 315°, Nam 300°, Carib 280° (WRTVH NL)

**ENGLAND** VOA Engineering says Daventry 6195 is D77 sked for PT to Eur 2130-2230, ex-Munich. VOA relays from Britain normally from Woolfferton. I cannot recall any earlier VOA operation from Daventry, at least in recent years (Bob Padula, Dec Australian DX News)

**ETHIOPIA** VORE National Service, ex-R. Ethiopia now obs on 7165 to 1200, on 6185 thruout the broadcasting day, and on 6015 evenings. VORE International Service, ex-R. VORE obs 1200-2000 on 9610/7165 (BBCMS 8/12)

**FRANCE** RFI D77 for Africa & Indian Ocean in FR: 5955 19-20½, 7135 06-07, 7160 04-05, 9510 04-06 & 18-21½, 9540 06-08, 9550 18-20½, 9560 04-06, 9605 18-20½, 9625 04-05, 9660 06-07, 9690 18-21½, 9705 19-21½, 11705 05-07 & 18-20½, 11730 05-07, 11735 07-09, 11745 06-08, 11780 04-06, 11860 18-20½, 11890 18-20½, 11930 18-20½, 11965 16-17 & 18-19, 15135 05-07, 15155 06-10 & 14-17, 15200 15-17, 15210 16-17, 15300 08-17, 15315 06-09 & 07-10 (diff. xmtrs) & 15-17, 15425 18-20½, 17720 10-14 & another xmtr 08-09 & 10-15 & 16-17 exc. Suns 08-17, 17800 06-08 and 16(Sun 15)-17, 17850 08-09 & 10-15 & 16-17 exc. Suns 08-17, 17860 14-16, 17865 07-14, 21580 10-15 exc. Sun 09-16, 21620 07-16, 21675 10-15 (via Wilder Pickard II, IL)

**GREECE** VOG D77: Nam 0000-0150 & 0200-0350 on 9760/11730; 1200-1250 & 1500-1550 on 11730/15345/17830. Eur 0500-0830 on 9710 Sun only; 0630-0730 7215/9760, 1000-1430 9710, 1830-2030 on 7280, 1900-1950 6140/7215/9530. Au 2100-2150 6140/9655/9760, 2000-2250 on 9655, 0900-0950 9655/15160; Japan 1000-1050 11760/15345; SAF 1800-1850 11925/15345/17830 (WRTVH NL) Also 2200-2350 Sam 9760/6140, and 17830 & 15345 are silent in the 1200, 1500 and 1800 xmsns on Tuesdays (Gerald Dalum, IN & Frederick Willis, PA, December SPEEDX Station Skeds)

**GUYANA FRENCH** Per QSL, R. Cayenne gives 3 Mhz outlet as 3395 and \*0930 (Cushen, WRTVH NL)

**INDONESIA** Current official sked of RRI Pekanbaru: 5885 (5 kW) at 23-02, 09-12, 14-16; 1 kW on 5885 at 02-0715, 12-14 (Ichiro Wada, IDXR-9 via Far East DX Review 28/11) (Kernick)

**IRAQ** R. Baghdad on 9635 ex-9745 for Arabic HS and FS, leaving 9745 clear for Camerouns /

**JAPAN** NSB changed sked to: Pgm I, 2100-1614 on 3925/6055/9595. Also 2100-2400 & 0800-1615 on 3925 (Sapporo); Pgm II: 2315(Sun 2300)-0745 on 3945/6115; 0100-0500 on 9760 (WRTVH NL)

**KASHMIR (PAKISTANI)** Azad Kashmir R. now uses 3860 ex-3915, at 0100-0434 & 1415-1834(Sun -1904) (Victor Goonetilleke, Sri Lanka, R. Australia Japanese DX 4/12)

**KOREA SOUTH** (Cf LN-2) R. Korea now follows each EG half hour for Am with one half hour in Korean on same freqs presumably (sked via Barto)

**LAOS** Oudomxai provincial DS obs since 22/11 on 7097 at 2330-0200 & 1000-1300; pgms in Lao & Lao Theung, including Vientiane nx relay at 0000-0030 and 1200-1230 (BBC MS 15/12)

**LEBANON** (Cf LN-2) R. Lebanon normal sked was soon to be resumed: 5980 (100 kW) 0445-0730, 1630-1900; 9545 (100 kW) 0930-1615 for HS Pgm I in Arabic. Foreign Svc to Af 1815-2030 on 9510 (alternate 11820): SAM 2230-0100 on 9570 (Alt 11810); NAM 0100-0330 9525 (alt 11825) (WRTVH NL) FS to Af confirmed, on 11755 1900-1930 Arabic, 1930-2000 French. Also to SAM on 11755 from 2300 (BBCMS 1/12) This is in PT at 2302-2330 after Arabic s/on at 2300. Also in French on 9680 at 0130-0200 (BBCMS 8/12) Contrary to BBCMS, R. Beyrouth hrd 17/11 beginning SP to Lam at 0030 on 11755 (David Crawford, FL) R. Lebanon hrd in SP to Sam on 11755 at 0045-0100 (Héctor Fernández, Bs. As., Argentina, SUDX 22/11)

**LUXEMBOURG** RL on 6090 now in German W. 0515-2100, 2315-2400; Sun 0600-2130, 2250-2400. Religious pgms (in unspecified langs -gh) W. 0500-0515, 2100-2315; Sun 0500-0600, 2130-2250 (WRTVH NL)

**MALAWI** MBC, Blantyre, sked: 3380 at 0245-0520 & 1545-2215; 5995 at 0500-2110; 7130 at 0600-1715 (via Tom Overcamp, SC; Charley Hoffman, PA; and R. Australia DX 4/12)

**MAURITANIA** Per recently received QSL, R. Mauritanie sked on 7245 1200-1600; 4845 0600-0900 & 1800-2400; Sundays thruout 0600-2400 (Leonard Cocito, DSWCI Oct SW News)

**NETHERLANDS** R. Nederland feeder sked to Bonaire: 1515-2020 on 13806; 1825-2130 on 10735½; 2020-0815 on 7742½ (Sandy Blaize, visiting Bonaire in Nov) Subject to change (gh)

**NEW CALEDONIA** R. Nouméa latest sked: 3355/11710 at 1900-2330(Sun 2100) & 0600-1100; on 7170/9510 at 2330(Sun 2100)-0600 R. Legge, USA, reports, however, 7170 also at 0600-1100 (WRTVH NL)

PAKISTAN LN-6

**PARAGUAY** Skeds of SW stations, active: 5980 (nom 5975) ZPA6, R. Guaira, 0900-1800. 5995 ZPA15, Lv de Amambay, Pedro J. Caballero, 24h. 6015 1 kW ZPA10 Em. Paraguay, 0930-0400. 6025 0.3 kW, from 100 kW, R. Nacional 1000-1800 & 2100-0300. 6110 1 kW ZPA 11 R. Charitas, 1000-0330. 9735 100 kW ZPA 1 R. Nacional, Asunción, as above. 15210 1 kW ZPA7, R. Guaraní Asunción, 0930-0300 (DSWCI Nov LA News) This last has never been reported to my knowledge, tho supposed to have reactivated in July or August (gh)

**PORTUGAL** RDP DS obs on 6155 at 2000-0100 (BBCMS 15/12) RCI via Sines D77 sked on next p...

PORTUGAL RCI D77 via Sines: 250 kW xmtrs all on 55° beam. 0315-0345 on 9615/7285/6015 in Russian; 1430-1459 on 9565/7245 in Russian; same freqs 1500-1529 Ukrainian; 1530-1559 Eng & French. The feed is picked up off the air either direct from Sackville, or via Daventry, which is fed via trans-Atlantic cable from Montréal (gh)

PAKISTAN R. Pakistan D77 sked shows many changes. EG 0230-0245 slow nx for FE 17830/21590. WS for Eaf 0500-0700 17665/21590, WS for ME 0500-0815 15520/17830/21730, WS for India 0500-0815 15150. Includes EG 0530-0540 and 0800-0815 rest Urdu. WS for UK 0715-1100 15115/17665 incl EG 0800-0815. 1100-1115 slow nx for WEu 15115/17665; 1345-1600 Bangla incl EG 1545-1600 7290/9660; 1630-1645 slow nx for ME 9460/11640; 1915-2145 WS for UK 7095/9460 incl EG 2115-2145; 2345-2445 WS for SEAs 7195/9645/11750 incl EG 0030-0035; 1800-1900 Turkish 7375/9790 incl EG 1815-1820; 0430-0445 slow nx for Eaf 15325/17830/21590; 0830-1045 Hindi & Tamil incl EG 0930-0935 11885/15520; Eaf 0300-0430 in Swahili & Gujrati now sked 21590/15325/17830 --a much earlier use of 21 mhz than previously (Bob Padula, ADXN Dec) It's MHz!! (gh)

SEYCHELLES FEBA D77: 15430 0915-0950(Sat/Sun-1005), 15325 1235(Sat 1130, Sun 1115)-1515, 15160 0640 (Sat/Sun 0625)-0815. 11945 1010-1030(Sat/Sun -1045) & 1235(Sat 1130-, Sun 1115-)-1640. 11840 ex-11865 0340-0445. 11800 0355-0520. 11785 0155-0300. 11755 0305-0340. 11725 0825-0915. 9770 1720-1845. 9650 0310-0345. 9605 0155-0300. 9545 1525-1640. 6185 0040-0155 (via Dave Walcutt, IL)

SOUTH AFRICA SAUK Oct-May HF's for Afrikaans: 11885/9560/4880/3955 (BBCMS 24/11) 2 each (gh)

SPAIN RTVE ES sked: 01-02 EG not Mon Nam 11880/6065; 0100-0300 SP Ams 11945/11775/9630/9530/9360/6120; 02-03 EG not Mon Nam 11880/6065; 0300-0400 EG not Mon Nam 11880/6065; 0300-0500 SP Ams 11775/9630/9360/6120; 08-0930 SP Au&Phil Gen Svc 17750/11740/9520; 0830-1100 SP Sun Eur for migrant workers 11920/7105/6140; 0930-1100 SP Au&Phil 17750/11740/9520; 1100-1300 SP Eur Gen Svc 1, 11920/9570/7105/6140; 1300-1900 SP Eur 11920/9570/7105/6140; 1730-1830 Arabic not Sun to NE 11810/9695/7130; 1730-1830 SP for Seamen NE & SE Atlantic & Guinea Gulf 11785/6090/6045; 1730-1930 SP Sun to Lam via Tenerife 11880; 1830-1930 SP not Sun to NE 15290/11810/9596/7130; 1830-1930 SP Gen Svc NE & SE Atlantic & Guinea Gulf 11785/6090/6045; 1900-2125 SP Eur Gen Svc 2 11920/9570/7105/6140; 1930-2030 Arabic not Sun NE 15290/11810/9695/7130; 1930-2030 SP seamen SE Atlantic & Guinea Gulf 11785; 2030-2130 Eng not Sun Eur 9505/7155/6100; 2030-2130 SP Gen Svc Af&ME&SEAt&GuineaGulf 11785/9695/7130; 2045-2145 SP Lam via Tenerife 11880; 2130-2230 EG not Sun Eur 9505/7155/6100; 2145-2255 SP Gen Svc Ams 11965/11945/11880/11775/9630/9530; 2300-0010 SP seamen NW Atlantic 11965/9630; 2300-0100 SP Lam 11945/11775/9530/9360 (RNE via BBCMS 11/77) 17735 ex-17750 at 08-11 (Bob Padula, 11/12)

SWEDEN Program-I SSB relay sked D77 via Varberg 100 kW xmtr: 0500-0630 15305 80°; 0630-0815 17775 80°; 0630-0800 Sat/Sun enlgt ovan; 0930-1200 21555 110°; 1200-1600 21555 170°; 1600-1800 15390 170°; 1800-2130 11950 250° (R. Sweden sked) The times listed for this are in CET, not GMT! (Richard Varron, NJ) Yes, but I've converted to GMT above (gh)

SWITZERLAND The Red Cross station in Geneva is on the air on 7210 at the times given in WRTVH 77, during 1978 on 23-27 Jan, 27-31 Mar, 22-26 May, 24-28 July, 25-29 Sept, 20-24 Nov (WRTVH NL)

TAHITI Papeete currently using 6135/11825/15170 continuously on local Saturdays, 1800-0900. Sun-Fri s/off is 0730 (Bob Padula, WRTVH NL)

UPPER VOLTA Ouagadougou sked: W. 0530-0900 4815, 1200-1400 7230, 1700-2400 4815; Sat/Sun 0700-0800 4815, 0800-1700 7230, 1700-2400 4815; on 746 thruout (WRTVH NL)

USA WYFR began using its first Okeechobee FL xmtr on 23/11, on this sked: Sun 1250-1600 17730 to SAM; rest daily: 1600-1650 15110, 1650-1850 15130, 1850-2050 11780, 2050-2250 9630 all to Eur; 2250-0500 11885 to SAM (Gerry Bishop, PA) Stn also advises that Portuguese will be added as from 1/1, but sked not known (Bob Padula, Victoria)

UN Radio D77 sked shows 15410/11935/11945 and 13491 SSB used Mon-Fri at 1800-1830 to C&SEu&NAF in EG/FR/SP/GK/TK/PT; 1830-1845 N&W&CAF EG/FR/PT; 1845-1900 S&CEu&NA&ME AR/FR/PT. Also PT to Carib/Bzl/N&CAF Tue-Sat 0000-0015 9715/11955/15240/SSB 10454. Tue-Sat SP to SAM 0030-0100 11830/9650/6040 (SCDX 22/11) i.a. (gh)

KGEEI sked issued 12/77: SP to Lam, 50 kW 2130-0100 15280, 0100-1400 9615. JP to Japan 250 kW 0800-0900 5980. RS to Sibir 0900-1000, 1200-1300 on 5980 250 kW. Mandarin to China 1100-1200 on 5980 250 kW (via gh)

USSR R. Minsk obs at 2130-2158 with Byelorussian on 5945/6200; R. Leningrad on Fri only at 2230-2329 on 5950 in RS (David Kernick, UK, 1/12) TACC news agency items read in RS at dictation speed currently 0700-0900 (not Sat/Sun) on 9850/9730/7420/7340/5780--intended for Sov local newspapers (BBCMS 1/12)

VIETNAM R. Cao Lang on new 6210 ex-4807 since 20/11, sked 1130-1400. R Bac Thai now on 7087 1200-1400, first hrd 29/10 //4690 (Tsukamoto et al, Miyako Xpedition, FEDXR 27/11) 4690 last hrd 5/11; 7087 varies 7084-7090 (Isao Ugusa, FEDXR) V. of Binh Tri Thien on 4677 sked f/in 1200-1540\*; R. Son La 6330 ex-6310 since 31/10, 1200-1400. Quang Ninh R. dropped 1500-1525 xmsn; only at 1130-1155 & 1300-1325 on 4708 (Ugusa) Unid Vietnamese lang on 4599, \*1130-1200\*, not to be confused with Xiang Khouang often as low as 4601 (Ugusa) Quang Ninh once obs to 1000\* on 4707, tent. (Tsukamoto) So 0930-1000 ex 1500-? (Isao Ugusa, FEDXR)

**MISCELÁNEA RADIAL**

**ARGENTINA** I'm hearing a station on 9115 kHz on AM, covering in Spanish a game between Argentina and Ecuador. What is it? Please publish if you get an ID (Pitt McNeil, DC, phone call at 0250 22/12) Tuned right in, found it on 9115.0, SIO 242, and at 0301 had vibraphone IS and ID as "R. Rivadavia" mentioning AM & FM freqs, I think, into news, and went off around 0316. That's a Bs. As. sta listed on 630 kHz only. Must have been a feed to Ecuador (gh)

**ALGERIA** Arabic on two new freqs, 15215 at 1200 and 7210 at 2210 (Kernick, UK, 11/12)

**BELGIUM** BRT's CMT 11 Dec xmsn was a very quiet one--dead air in fact, from 0017 past 0100, punctuated only by sounds of tape fast forward or reverse past heads at 0017 and 0027. What an amateurish operation; furthermore, they were in French, not sked Dutch until 0014, all on 6080 (gh) BRT4 is starting a listeners club as from January--for DXers and especially for 'friends of the sta'--anyone interested can join +++ membership-conditions require a regular sending of correct reception reports +++ it is expected that the club will publish an own bulletin similar to R. Sweden or R. Budapest (European DX Press 9/11) R. Sweden?(gh)

**BOLIVIA** The native languages of Bolivia, Quechua and Aymará, have been proclaimed official languages in a special government decree. Official data shows that Spanish, until now considered the only official language, is spoken by only 35% of the population, principally in the cities. 62% speak the native languages, and 3% Guarani, along the Paraguayan border. Peru also made Quechua official in 1975. No doubt this will lead to changes in Altiplano-land broadcasting--an increase in programs or IDs in the officialized languages. If this happens, it may present new difficulties for the tropical DXer, with Quechua and Aymará making the 60 and 90 meter bands even more exotic (Argentine DX Club International, Sept)

**CAMBODIA** Part of the words to the National Anthem: "Bloods of workers, indomitable peasants and revolutionary warriors are liberated under the red flag on April 17th...April 17, victory greater than the time of the Angkor. We will unite to construct a new Cambodia and society of democracy, equality and justice according to a path of self-reliance... Flying the revolutionary flag high, we will construct and develop our country." This anthem is titled "Great Victorious April 17th" (Asahi Shimbun 19/1/76, translated by Ugusa, FEDXR)

**CAMEROON** Rdif. Nationale says R. Bertoua, reported on 4750 will also use 7165 with 20 kW. And that IS from Yaoundé will soon use 100 kW on 5960, 7290, 9745--already reported, 11875, 15215, or 17750. R.Buea ops on 3970 as in WRTH 77; on 6005 at 1100 (Sun 0645)-1630 (WRTVH NL) Yaoundé new IS 0745, audible as early as 0441 to 0745 f/out via longpath; also in 1900 -2300\* period in FR w/African songs prominent, via shortpath, as of 10/12 (Padula, Victoria)

**CANADA** BBC via Sackville out of whack; noted 11/12 at 1320 on 6168v, bad FM warble, and not hrd on usual 5990 (gh) 15/12 on 6090 at 1315, maybe Antigua, Montserrat? (Whitacre, MI) No, I think it's this same malfunctioning Sackvillian, OK on 16/12, but on 17/12 at 1310 check, very distorted on 6081. In both cases audio typical of cable feed used to Sackville rather than off-the-air used to West Indies (gh)

**CHINA** Tibetan svc of Xizang PBS on new 5261 from Oct, plus usual 4035/9490/9655. The BBCMS reported 11965 not traced in Japan. Chinese service noted on 5935/7085. Heilongjiang (Heilunkiang) PBS uses 6150 regularly local daytime, but not morn/night. Guizhou PBS on new 1178 kHz, presumed larger power, also on 930, 1030, 3259, 7375 at 2130-1605 (Gweichow).

Here is a survey of Chinese local SW outlets noted in 1977: U-Uighur; K-Kazakh

2200 Fujian II	4068 Nei Menggu (M)	4970 Xinjiang (K)	6176 Sanxi (Shensi)
2310 Yunnan II-A	4110 Xinjiang (U)	4975 Fujian I	6255 Qinghai
2340 Fujian I	4220 Xinjiang (K)	4990 Hunan	6260 Qinghai
2415 Wenzhou	4500 Xinjiang	5010 Guangxi II	6280 Xinjiang
2475 Zhejiang	4525 Yih Ju Meng	5020 Jiangxi	6500 Qinghai (A)-Amdo
3245 Sichuan	(Yikezhao)	5040 Fujian I	6840 Nei Menggu
3259 Guizhou	4750 Hulun Boir Meng	5057 Xinjiang (M)	6937 Yunnan II-B
3310 Jilin	4759 Yunnan I	5261 Xizang (T)	7050 Xingjiang (U)
3340 Heilongjiang	4785 Zhejiang	5440 Xinjiang (M)	7085 Xizang (T)
3900 Guangdong	4830 Liaoning	5935 Xizang	7165 Fujian I
3900 Hulun Boir Meng (M)	4840 Heilongjiang	5950 Heilongjiang	7202 Xilin Gol Meng
	4865 Gansu	5959 Yunnan II-A	7208 Yunnan II-A
3930 Ju Ud (Zhaowuda)	4895 Nei Menggu (M)	5970 Gansu	7275 Guizhou
3940 Hubei	4915 Guangxi I	6045 Yih Ju Meng (M)	7324 Gansu
3950 Qinghai	4925 Heilongjiang	6070 Jilin	8745v Beihai
3970 Nei Menggu	4940 Qinghai	6080 Hulun Boir Meng	9490 Xizang (T)
4001 Bayannur	4953 Xilin Gol Meng	6150 Heilongjiang	9655 Xizang (T)
4035 Xizang (T)-Tibetan	(M)-Mongolian	6155 Gansu (Hiroyuki Nagase, FEDXR 27/11)	

**COLOMBIA** Rdif. Nacional SSB hrd 10/12 on 13851 (Richard Stoller, NY)

**DOMINICAN REPUBLIC** Rudy Espinal says R. Clarín will mail out a Feb-Apr pgm sked in the 2nd half of Jan. May is election month and programming may change. No pennants will be available until the 2nd half of this year (gh) R. Clarín hrd on new 11860 in SP at 0030, maybe ex-11700? (David Crawford, FL, via R. Australia DX 27/11) one-shot? certainly 11700 every time I checked, and since this undated report (gh)

ECUADOR Here's a hot DX tip: I'm hearing a new station on 3290 in Lago Agrio, around 2300 -0400. ID sounds like R. Atenor (?) (Clayton Howard, DX Party Line 22/12) 3290 is now R. Amazonas, Lago Agrio (WRTVH NL) On 3290, HCVA5 is R. Amazona, ex-La Voz de Alausí, Lago Agrio. Dir: Dr. L. Llerana (official Ecuadorian info via WRTH Latest LA News via TDXN 6/12) Also via same sources: 3310, R. La Voz de la Frontera, Macara, ex-3500. On 5050 is now R. Jesús del Gran Poder, HCCFF1, 5 kW

FINLAND In Public Telecommunications Review 5(3) May/June 1977 pp. 18-25 is an article on broadcasting in Finland by James E. Lynch, including a breakdown of YLE SW xmsns in Finnish, Swedish and EG. The surprising and questionable part is 24.9% music. Also shows 28.5% entertainment and 24.0% news and current affairs (David L. Walcutt, IL)

HONDURAS R. San Ysidro, 4844, operates only on holy days and during Xmas season. Last hrd Easter Eve '77, and again on 4/12 in SP at 0055 past 0200, with Catholic mass till 0058, then Xmas mx; IDs at 0114, 0152: "Aqui Honduras, R. San Ysidro". Should be fairly regular till Dec. 25 or so; also hrd on 5/12. You made me sound like a prophet on RCI DX Digest! (Neal Perdue, AL)

INDIA AIR has changed its traditional 15080 kHz to 15125 (Miguel Francisco Castellino, Mendoza, via DXismo Argentino al Mundo, RAE, via ADXCI Sept)

INDONESIA The local govt stn on 3510 IDs as "R. Pemerintah Daerah Tingkat dua Lampung" which is in Sumatra. Full ID at 1400 beginning of local news. Also hrd RRI Jayapura on 4980 //6070. RRI slightly off 7210 hetting Moscow from Biak at 1342 (Robert Yeo, Victoria, RA Japanese DX 11/12)

IRAQ R. Baghdad noted on 11905 at 2300 with usual AR, good sigs but suffering from strange unmodulated frequency shift jamming (David Crawford, FL) See ISRAEL, Dec LN-6 -? (gh)

ISRAEL According to Damascus radio, the occasion of as-Sadat's visit to Israel was the first time since 1952 that Egypt had not jammed the "D" network on 5915 and MW, which normally carries IBA Arabic. In a report on IBA activities on 20/11, the radio announced that all five nets were operating at 'revert pitch'. An open line had been made available to R. Cairo. The Soviet Union increased jamming of IBA external service, adding English to the usual Hebrew, Yiddish and Russian jammings (BBCMS 24/11) IBA also broadcast from Egypt a relay of the opening of the 14/12 Cairo conference, EG coverage at 0855-1003 on 25605/21625/21500/17815/15530/15511/15415/15105; and in Hebrew in B net on 15545/12077 (BBCMS 15/12) It sounds as if IBA has a relay station somewhere they haven't told us about. On 11/12 at 2240, checking NAM svc freqs, 9815/7412½ had normal studio-quality audio, whilst 9435/5900 definitely had an off-the-air relay sound (clipped audio and selective fading), quite different from the other two, flipping back and forth to compare. The four 300-kW xmtrs are supposedly at a single site in Israel, so it wouldn't make sense for two of them to be fed via line, and two off the air if within Israel. But, perhaps there is some other explanation? (gh)

LAOS Xieng Khouang on new 5026v, //4602, hrd 1220 29/10 (Tsukamoto, Kiyomiya & Nagase on DXpedition in Miyako via Tsukamoto, FEDXR) Radio stns are in Vientiane, Luang Prabang, Savannakhet and Pakse. These were expanded according to Colombo Plan by help of the UKOGBA-NI, West Germany and Australia. New Vientiane stn was completed with UK help and took the air in 6/68. Assisted by W. Germany & Australia, the stn has 2 x 10 kW; 1 x 20 kW; and one 7.5 kW relay xmtr. UK assisted establishment of Luang Prabang & Pakse stns, formally taking the air in 1/68. (Tönan Azia Yöran 1974 via FEDXR)

LEBANON (?) V. of Lebanon reported to have raised power, so checked 10/12 at 2125 on 6550, and hrd very weak music with beat; exalted carrier helped; anmt at 2158 and different mx-anthem? Seemed on past 2200. Trouble is, normally closes at 2100. Maybe a 5 x 1310 harmonic? Certainly not R. Peking anyway, which uses 6550 for English (gh) I heard the VOL tip on your RCI show 11/12, tuned right down and found it, tentatively; AR male vocals to 2043, talk, presumed s/off anmts at 2059; 2103 OC, carrier off 2103 (Richard Stoller, NY)

LIBYA Mebo II on 6206v hrd 12/12 with usual pop mx and 2100\*, said to come back at 1800 tomorrow. High audio tones noted sporadically afterwards and carrier still there thru 2108 tuneout (Richard Stoller, NY) The Mebo II which was originally in Tripoli harbour moved 11/8 to Derma near the Egyptian border. The original contract was for a period of 6 months which ran out around 1/11, and the xmsns have not been noted lately. They did for a time relay Libyan Radio EG from Tripoli using a Grundig Satellit to pick them up but these were soon discontinued due to poor quality. The MW xmsns used only 10 kW altho they had a 105 kW xmtr available (SWNS 12/77; no further source quoted)

MALDIVIVE ISLANDS (et al.) Lest you wonder who the fellow is in the annual full-page ad in the WRTH (p. 53 in 1977), look at this from Philadelphia Magazine 12/77: THE LORD GIVETH AND THE BISHOP TAKETH AWAY In what an FBI spokesman called the biggest theft in the city's history, 22 bars of gold worth some \$329,000 were reported stolen from the luxury apartment of Bishop S. McDonald (sic--the ad says McDowell -gh) Shelton, spiritual leader of the Church of the Lord Jesus Christ of the Apostolic Faith at 22nd & Bainbridge. The bishop, whose fleet of cars includes Cadillacs and a Rolls Royce, also said that \$40,000 in cash and an undisclosed amount of jewelry was taken. The bishop, whose church members donate

10% of their annual income as well as one week's pay per year to him, said he felt no need to keep the valuables in a bank. (via Larry Magne, PA)

NETHERLANDS +++ strong criticism was made by many listeners on the new and reduced 50 min sked by R. Nederland Wereldomroep +++ though officially announced that the step to reduce from 80 to 50 mins would have only 'technical' reasons, the reality seems, that finances were the main reason for the schedule introduced on november 6, 1977 ++++ (EDXP)

NICARAGUA Hrd. Rdif. Nacional 9/12 at 0615 on 5925 with Latin mx and many IDs (Pete Grenier, CA) Now 5920, booming all-night, also 1200-1400 fade, usual pgms (Pitt McNeil, 11/1 A bit low toward 5919, actually (gh)

PARAGUAY R. Nacional carried out an equipment test on 9735 last September, heard in Mendocino on the 3rd and 4th. Letter says the test lasted 3 days, and was on 28 kW, soon to be increased to the 100 kW capacity of the transmitter (Castellino, ADXCI)

PHILIPPINES FEBC announced that their Japanese section celebrated its 25th anniversary 18 June; and that the broken down Iba, Zambales xmtr is back up to full power. At about 11 p local time 23/6/77, Nelson Pagunsan, a transmitter operator at the Bocaue site was electrocuted whilst changing freq. An unbelievable 10,000 volts passed thru his body, crossing his heart and severely damaging his arms, thighs and stomach. Amazingly Nelson survived and is now facing painful recovery from third degree burns. This must be considered as another of the great escape stories of all time. The Thai Section of FEBC receives about 2 letters a month; Burmese does better. The overseas English section, with many more hours on the air per day, receives about 680 letters per month on the average (WDXC Contact, Dec)

SABAH R. Malaysia Sabah reactivated 5980, heard 1500-1600\* (Victor Goonetilleke, RN 22/12)  
SA'UDI ARABIA Turkish pgm currently on 1715 at 1700-1800. Riyadh radio reported that from 12 to 26/11, Riyadh and Jiddah radios would be linked to relay the Islamic rites of pilgrimage. This is in addition to the extra pgms broadcast since 3/11 by Call of Islam radio from Mecca. This latter svc, tentatively IDed during evening on 7110, relays prayers from the mosques in Mecca and Madinah on alternate days. Riyadh's Holy Qu'ran station has recently been obs on 15175 until at least 2000 (BBCMS 17/11) SABS hrd with Koran pgm at 2000-2200 new 7110 (David Kernick, Watford, Herts, 1/12)

SOMALI REP. R. Mogadishu is now on 9605 ex-9585, HS in Somali to 2100\* (Padula, RA 27/11)

TRISTAN DA CUNHA Concerning the reported reception by a German DXer, I wrote Tristan and this was their reply-- "I read with interest your statement that a listener in the GFR had reported reception of our station...to date only one or even two QSL cards have ever been issued to people who have convinced us that they have received our broadcast. At this time we are still broadcasting on our small 40 watt transmitter (hence the reason why very few people have received us) and I do not foresee us increasing our power in the near future unless we receive a new xmtr. Should we increase power it shall be on a 500 watt xmtr (type Oceanspan 7) but no dates have been decided, but once we do I shall write to the editor of the WRTH for inclusion in his next edition. Our operating hours are from 1900 to 2205 GMT Wed, Fri & Sun. We use a quarter wave vertical aerial for our transmission and we broadcast on 3290 kHz. A.J. Calder, Director of Broadcasting, Tristan da Cunha, 24/10 (Mike Hardester, Okinawa, 27/11)

UGANDA The new stn in Arua will be known as the Giligili West Nile Broadcasting Corporation, reported Kampala radio on 8/11 (BBCMS 17/11)

URUGUAY Received an EG letter from the YL who reads the EG nx on the SODRE international svc. She is studying to be a public translator at 'the university'. Apparently she only works at SODRE part time; and is the one who also translates the regular nx to EG. Still haven't received any answer to my report to SODRE, tho (Pitt McNeil, DC, 11/12) Jean-Pierre Penaud in France heard La Voz de Artigas around the birthday of José Artigas on 4945 at 2300-2330 (Tor Henrik Ekblom, DSWCI Nov) So when's his birthday?! (gh)

USA Arthur Thompson informs me that WYFR has had trouble with their frequency synthesizer both in MA and FL, introducing a 500 Hz pulse onto their carriers. This explains the hum, warble, or buzz often heard on WYFR. This has been going on for months, and it seems they are unable to monitor the trouble themselves! I suggest it might help if DXers would phone WYFR (prepaid) whenever the buzz is heard and let them listen to it over the phone. If from MA, (617) 545-5700; from FL, (813) 763-0281 (gh)

USSR Yakutsk now using four 60m channels for DS--4800, 4825, 4920, 4940, hrd around 1000 with moderate to slight signals. 7345 and 7265 not used evenings (T. Saito, FEDXR 27/11) A potpourri available at 0500: 4780 Petrozavodsk with M1 //5065, both good; 4785 Baku with local pgm, nice ME mx; 4810 Yerevan u/SABC w/local pgm, seemingly; 4895 Tyumen strong but fluttery w/M1 pgm //4780/5065; 4930 Tbilisi over NBC 4932 w/M2 pgm; 4940 Kiev, strongest non-Latin on the band, local folk mx, UK talks; 5015 Arkhangelsk w/classical mx and RS talk (Pitt McNeil, DC, 11/12)

ABBREVIATIONS I hope you know or can figure out most without much trouble. For the record: ES=external service, IS=international service, FS=foreign service, sometimes OS=overseas service are about the same; DS=domestic service & HS=home service likewise identical (gh)

**UNIDENTIFIED**

2340 apx. unID Lam to 0357\* driving me crazy; anthem at close similar to Ecuador's but is not. Music is LA & Brazilian-type accordian, but also hrd Bogotá mentioned. Onda larga mentioned, maybe harmonic (Perdue, AL)

2920 unID Lam 20/11 in SP 0030 past 0100, M&W ancrs, easygoing Lam group vocals, ads, phone QRM. Maybe harmonic but they're usually faded out here by this time. Or image? (Perdue)

4740 I hrd the stn you mentioned on RCI 4/12, on 9/12 at 2026-2035 when it suddenly disappeared. Apparent IS of 8-second bugle/drum arrangement, at 5-second intervals. QRM from an unID Portuguese or Slavic (? -gh) stn and local BCB harmonic (Richard Stoller, NY)

9555 unID Francophone African heard 8/12 at 2335-0003\* Any ideas? (David Kernick, UK)

9815 programming awfully similar to Ufa's--local RS mx, opera, orchestral, news by OM & YL, from 0155 tune in. 3-note organ-type IS after time pips on the hour. SINPO 34444 at 0200; lots of ute QRM after 0315. Couldn't find a parallel or anything listed here besides Israel. Help!! (Diane Levesque, IL)

25000 very puzzled by time stn 26/11, pips every ten secs, 1445-1451 & 1515-1518 fadeout. They didn't ID during the whole period (Al Muick, PA, ECDXA)

**CLANDESTINE CRANNY**

Radio Abdala 27/11 at 2307 tune in, two IDs over "2001--A Space Odyssey" theme, into SP political talks. On 7084v, horrendous modulation but good sigs (Pitt McNeil, DC) 7085 strong on the same Sunday, ID 2328, 2335, "2001" theme & s/off 2336\* (Jerry Berg, MA, TDXN) This anti-Castro stn hrd on 7086 at 0215 2/12, poor sigs, bad ham QRM. In SP, commentary by M & W, few bars of mx between mentions of "Cuba", "Angola", "Soviética" and "Revolucionaria". Rumored to be hidden in Cuba, but skeptical; perhaps CAM or Venezuelan QTH (Sizer, CT, ECDXA)

WDDX is a new pirate in NYC using WCPR's famed phone-in format on 1620. Hrd 28/11 from 0120 tune in, and again same GMT date from 2200 tune in until abruptly off at 2247; fair signals at (SWNS HQ, Crystal Beach Ont) R. Abdala hrd 25/12 to 2348\* same format, heavy CWQRM (gh)

Radio Free Australia, pirate style pgm hrd on 21490 12/11 at 1130-1200\*, "a member of the Clandestine Radio Association of the Universe". Rock mx from record player, appalling quality, probably a CBer looking for more challenge (Bob Padula, Victoria, ADXN)

Radio Viking was to broadcast a special New Year's Eve with 50 watts and a directional antenna toward USA, from 2100 31/12 to 0300 1/1, with DJs Oscar Hansson and Poul Anthony, on a frequency chosen from 6225, 6230, 6240, 6256, 6285 and 6107. It's in EG, tho this is The Danish Free Radio Station, address: Kent Place, Norwell, Newark, Notts, UKOGBANI. Was hoping to get its first reception reports from USA (John S., via Bill Whitacre, MI) It would have helped to know about this earlier? I had it on RCI DX Digest 18/12! (gh)

FRBC, claiming to have a 6 kW xmtr on 6214.5 kHz left the air midway thru a record on 27/11 due to a Home Office raid. None of the equipment was lost (Patrick Travers, WDXC Contact)

R. Sunshine International besides MW & FM also has 100 w for SW and a 35m longwire, on any of these: 5910, 6205, 6235, 7325, 9360 kHz, from the south of England (John Falkner, WDXC)

European Music Radio broadcasts every 3rd Sunday of the month on 6265 with 30w. It's one of the stronger stations on the 48m band (Oct DSWCI) Unless you're trying from Nam! (gh)

Radio Gemini, the oldest pirate on SW, started in 11/72 and is only on the air 7 or 8 times a year; therefore the station is very seldom raided (Oct DSWCI) And very seldom heard...(gh)

Greece The wildfire spread of pirate radio and TV in Italy is being repeated here, despite a law providing stiff penalties. Passage of the law caused a temporary halt in the activities of the pirates, but now hundreds of them are back in operation. It's estimated that as many as 2000 pirate stations are broadcasting in Greece. The stns flourish because of the readily available revenue from small businessmen. One of the most successful is operated by a key-cutter, who between record programs advertises his 24h key-cutting service. In the face of the mad scramble to get into radio, the State Telecommunications authority held an exam for those wishing to qualify for a license to operate as a radio amateur and thus receive legal permission to broadcast (sic). The results of the exam are not yet known (Billboard, 3/12 via SWNS)

France The French state broadcasting monopoly has been successfully challenged in the courts. R. Fil Bleu, which had operated in Montpellier (Paris) in July, won the first round in a fight aimed at changing the established system of state-run radio & TV. The court ruled that there was no case against the former pirate to answer, but the ruling was subject to appeal (The Times, 5/12 via BBC MS)

Thailand Fifteen 10-kW, 2 x one-kW and one 20-kW xmtrs were seized in NE Thailand in a series of raids on clandestine stations; two were raided in Bangkok itself (Thai newspaper 'Nation' 9/11 via BBCMS) The raid was made at the request of the Public Relations Dept. Security officials said there was no direct political implication in the running of these but they were set up by 'retired military and police officers who used them to obtain income from broadcasting ads'. The stns were operated individually and not connected with any net. Some were allegedly even operated from official premises (Bangkok Post 29/11, BBC)

Voice of Kawthulay, anti-Burmese govt stn "Kawthulay athan hlwint htana" obs 25/11, 1 & 2/12 on 4880. Stn was first heard briefly in the year 1950 and again on 4/9/76. Obs show this sked: Thu & Fri: 1130 Sgaw Karen, 1200 Pwo Karen, 1230 Burmese, 1300-1330 English. And on Sat & Sun: 1130 Sgaw Karen, 1230 Pwo Karen, 1300 Burmese, 1330-1400 English. (BBCMS 8/12) Also noted testing on 7/12, a Wed between 1200 and 1240 (BBCMS 15/12)

Voice of the Malayan Revolution anc'd that from 10/12 the 2200-2245 Malay BC would be on 9620 ex-15790, and 7305. Also applies to 2245-2320 Std Ch & 2320-2405 Tamil. The 0430-0710 and 0930-1530 continue on 15790 & 11830 (BBCMS 8/12) (BBCMS 8/12)

Voice of the People of Burma as from 1/12 retimed the Burmese 1330-1430 on 6304 to 1030-1130

Vietnam A former CIA Saigon staffer, Frank Snapp, says in a forthcoming exposé book that the CIA secretly operated no less than 5 gray clands from 'a ramshackle old building in Saigon' carrying pgms in Viet and Cambodian. They supposedly operated until the fall of Saigon, and were initiated after the 1972 Paris cease fire accords by Henry the K himself. 'As 'gray' stations, they were representing themselves to the world as non-Communist radio voices with no Government affiliation.' (Seymour Hersh, New York Times 17/11 via Magne)

Radio Free Russia is sked at 0340-0400 on 7150/9630/11905/11970/15280/15320; and via Radio Seoul at 0345-0400 on 9640 and 2145-2200 on 9640 (La Pensée Russe, Russian dissenter pub in Paris, Oct/Nov via Bernard Chenal via FEDXR) No, there's no R. Free Russia; checked all the freqs. As far as I know, ceased a couple years ago from Seoul/Taipei, along with xmsns from W. Germany (Isao Ugusa, FEDXR)

Voice of Namibia now heard via RTVC, Brazzaville. Hrd 12 & 13/12, 1630-1700 on 15190; anmt indicated sked Mon-Sat at 1630 in 19/31/41/49/61/203m bands. 15 min of EG, then at 1645 French. ID "This is the Voice of Namibia, the English program of the external mission of the South West Africa People's Organization." Programming was a calm recitation of Namibian grievances by man & woman, interrupted by rather pleasant African choral songs, some punctuated by recorded bursts of gunfire (Richard M. Utter, NY)

Voice of the Eritrean Liberation Front, in Arabic & Tigrina 1500-1600 on 6150/5038/960 kHz via Omdurman, now on Mon/Wed/Sat only (BBCMS 15/12)

Voice of Revolutionary Ethiopia has offered the OAU the facilities of its two 100 kW xmtrs for pgms 'to strengthen the liberation struggle in southern Africa' (BBCMS 24/11)

Voice of the One Lebanon is now using 9510 and 6060, as is Voice of Arab Syria (BBCMS 1/12)

Voice of Arab Syria evening xmsn has been confirmed at 1800-1900 on 6170 only (BBCMS 17/11) Now on 9510 & 6060 at 0500-0600, 0800-0900, 1800-1900. But between 23 and 25/11 was on 9500 instead of 9510 (BBCMS 1/12)

Voice of Palestine, Voice of the Palestinian Revolution, not positively IDed since 21/7 has reappeared on 1508 (nom. 1520) kHz, hrd 6/12 at 1900\*, back 7/12 at 0500-0600, said would be back at 1400. From 12/12 sked anc'd as 04-05, 14-15, 18-19 (BBCMS) The VOPVOPR pgm continues via Algiers 1605-1705 on 17825/15160/9705/9685/9510/7195. VOPVOPR via Cairo was terminated 18/11. A report on the 19/11 VOPVOPR pgm via Algiers said the Egyptian régime had closed them down for the second time. But from 17/11 the VOPVOPR pgm via Baghdad on 760 kHz increased time from 1930-2030 to 1930-2130, after a reduction to 1 hr in July (BBCMS) ADXN)

Voice of the Free Canary Islands via Algiers hrd on new 11795 in SP to 2200\* 23/11 (Padula,

## FUTURE PLANS

ARGENTINA Press reports at the beginning of Oct say a new radio law has been approved which calls for the privatization of radio & TV stations which have been controlled by the govt's Administración General de Emisoras Comerciales, 36 in total. These include R. Belgrano & R. El Mundo (ADXCI)

BRAZIL Per MinCom, all licenses of commercial or private stns operating on SW will be cancelled or not renewed in the near future. SW will be used exclusively by Govt-owned stns henceforth. R. Rural, owned by the Ministry of Labor, will be transferred into Radiobrás within 90 days. Radiobrás already operates R. Nacional, Rio & Brasília; R. Ipanema and R. Roraima. Also, R. MEC will be controlled by the new Brazilian Govt Broadcasting Agency. (DX Club of Brazil, via ANARC) Will stns go off or will they just be nationalized?? (gh)

CUBA Budapest radio reported 18/11 that a co-op agreement had been signed between Hungarian & Cuban radio, envisaging exchange of personnel and pgms. Hungary will also assist in modernising Cuba's broadcasting equipment (BBCMS 24/11)

CHILE Eight 100 kW HF xmtrs are being installed for R. Nacional, and 8 antennas are being constructed: an omni for Chile (? for a country like a string bean? gh); a 340° double log for NAM; and another at 0°. Also a 30° double log for Brazil & Caribe; 90 ±15° steerable curtain for Au/Jap/Af (two of them); and two 45 ± 15° steerable curtains for Eur. Will propagate to Australia via longpath, by around March 78 (F. Riley, consultant, USA via ADXN)

GUYANA FRENCH RFI cannot be heard clearly in SEAs nor in LAM. There is a tentative plan to have a relay station here so RFI can be heard thruout NAM, not just the east coast; and to improve reception in Waf (France-Inter 9/11 via BBCMS)

MALAYSIA Govt has ordered 2 x 500 kW HF xmtrs and ants from Thomson-CSF, enabling VOM from

1979 to be heard all over the globe, particularly in SEAs, FE, ME, Eur (Electronics Weekly, 7/12 via BBCMS) Will use EG/FR/AR/CH/VT (SCDX 20/12)

NIGERIA VON reports that the Federal Military Govt will on 1/4/78 assume responsibility for all state radio stns on SW and powerful ones on MW--in financing, staffing and development, but will continue to have operational autonomy like TV. Everything possible should be done to maintain their distinctive character (BBCMS 15/12)

PORTUGAL A four year plan is under study to provide R. Portugal with more powerful xmters and antennas. This plan will be included in the Broadcasting Act which has to go thru Parliament before coming into effect (RP DX & Listeners Letters pgm 4/11 by Winnie d'Almeida via Edw'n Southwell & Steven Lowe, WDXC Nov mid-monther)

SWAZILAND TWR is to purchase a fifth SW xmt of hi power for BCs to C&Eaf to replace the gap left by R. Cordac in Burundi (Richard Cinbey, RSA, WRTVH NL)

UKOGBANI I don't think you need worry very much. It is true that a Government Committee of Enquiry into all Britain's Foreign Service activities recently recommended that the BBC Overseas Services should be cut by 10%. I doubt very much whether this will actually happen since the idea was greeted with roars of disapproval and it very much looks as though the Government is going to back-pedal. Nevertheless it is letters such as yours that help us on such occasions (Sir Michael Swann, Chairman, BBC, letter to Dr. James S. Snow, GA, 10/11)

USA WYFR hopes to have the second Okeechobee transmitter ready for use by the beginning of the March broadcasting season. Doing it one-by-one also expedites FCC processing (Arthur Thompson, WYFR)

SOLAR ACTIVITY IN 1978 Per Prof. Dr. M. Waldmeier of the Swiss Federal Observatory, sunspots have strongly increased by number and size in the second half of 1977. The minimum occurred during May 1976. The minimum is produced by overlapping the declining branch of the old cycle (no. 20) and the ascending branch of the new one (no. 21). This overlapping takes several years. The first spot of new cycle was obs 15/11/74 and last of the old not before 9/77. Up to 10/76 the spots of the old cycle were dominating, afterwards those of the new one. By the strong overlapping, the smoothed sunspot number did not sink below 12. Never in the last 250 years has a minimum with such high activity been recorded. The development of the sun's activity in the years to come depends on the intensity of the next maximum. If it is a strong one, it will be reached early, whereas for a weak one the rising time from minimum to maximum will be longer. It should be possible to make a prediction by mid-1978. Cycles 21 & 22 are not expected to be strong ones, with a maximum sunspot number not larger than 60, according to a 90-year period of variation. The strong increase of activity in June-Sept 1977 is not in favour of this prediction. If this increase holds on, one must expect a maximum sunspot number between 100 and 120, or even higher. Assuming a maximum of 110, the corresponding rising time would be 3.6 years and the time of the maximum January 1980. Under this assumption 1978 will bring a strong increase in solar activity, the smoothed number rising from 40 to 70 at yearend. Generally, this means a substantial amelioration of SW propagation, similar to second half of 1966. At the same time, solar flares, rare during last few years, will increase by number and importance, and will be accompanied by severe ionospheric disturbances--blackout fadings--on SW (WRTVH NL)

1978 International Broadcasting Convention, the 7th in a series of biennials, will be held in the new Wembley Conference Centre, London, 25-29 Sept 1978. The last convention, in 1976 was attended by more than 2600 delegates from 51 countries. Enquiries in connexion with IBC 78 should be addressed to the IBC Secretariat, I.E.E., Savoy Place, London WC2R 0BL (EBU Review--Technical--via Walcutt)

WARC 79 I feel the conference should devote itself to revision of frequency allocations only, because it is very complicated. Mixing this with channel spacing or other modulation systems would reduce the chance for success. In a 1981 or 1982 conference on the latter we should aim for a worldwide channel separation of 9 kHz per reception area but maintain the 4.5 kHz 'interleaving' now applied @ 5 kHz. Use of SSB xmters seems to be a very normal development if we can decide on a reduced-carrier system enabling receiver manufacturers to develop locking circuits to facilitate tuning. Proposed sharing in the 60-m band between tropical and international BC is not as bad as it sounds because present stations will maintain within the one-hop area a sufficient protection from incoming multi-hop xmsns, even if the latter are high-powered (Jim Vastenhou, R. Nederland, in Dec WDXC Contact)

DX PROGRAMS AUSTRALIA I was not able to persuade the Domestic Service Dept. of ABC Radio here in Melbourne to continue DXers Calling over VUH & VLR formerly at 2100 GMT on 6150/11880...so that's really the end. We are of course continuing to provide material for the Japanese version "DX Time" which runs to about 15 mins on Sunday nights. "Club Forum" has proven quite inappropriate for inclusion of DX items. They have not been using the promised 4 minutes worth and have not given suitable acknowledgement to the source of the DX items given. Keep those protest letters coming! (Bob Padula, ADXN)

AUSTRIA ORF will carry EDXC reports in German on Sats 7/1, 4/3, 6/5, 1/7, 2/9, 4/11/78(EDXP)

**CANADA** At 1645 on Mondays, CBC NS has a short roundup of SW news. It's a live talk with an SWL in Nova Scotia, giving a roundup of world news comment (Richard Varron, NJ) Starts as early as 1640 some weeks. Concentrates on oddball stories, quite a bit lighter and less formal than BBC's "Listening Post" was. Canadians or nearby Americans can also hear this via CBC AM radio in last half hour of "Morningside" (gh) It's a bit tedious to have to listen and tape DX Digest on RCI twice, since I have to hang around 70 minutes when I might be out doing something else (David Walcutt, IL) With two receivers and a tape recorder, a lot of trouble and time can be saved. The 1900 on 15325 is one edition, the 1900 on 15260 is the other. Tape one, listen to the other. Quite convenient (Pitt McNeil) There should no longer be any difference between target area as to items used--just 2 separate editions. If more convenient you can hear the first at 1820, go out and catch the 2nd at 0420 (gh) "Allo DX" is now scheduled in all the RCI French 30-min pgms on Sundays +GMT Mondays. "DX Ecke" concludes the German pgm on Sundays before 1800. There are also segments on radio/ham in Polish on Sats, Czech/Slovak on Suns (gh)

**FINLAND** During the DX Spot on Sunday Best 17/12, David Mawby said that during 1978, the separate Saturday Finn-DX pgm would become 10 mins every second Sat--I think he means alternating weeks--rather than once a month at 25 min, which he indicated was too big a dose for non-DX listeners (gh)

**PORTUGAL** Telex club presents DX pgms in French, DX Party on RDP the 2nd Fri of the month at 1645 on 17895 for ME, 1845 on 15340/17880 for Af; 2115 6025/9740 for Eur. Editor is Paul Renard (WRTVH NL) So the next one is 13 Jan; they have own QSL (Padula, ADXN)

**USSR R. Moscow DX Club** is broadcast to UKOGBANI & Eire Weds 1221 on 17.86, 11.90, 11.83, 11.74, 11.70. 9.72, 9.45; and Suns at 2022 on 7.36, 7.28, 6.17. 6.02, 5.97, 1.14 MHz (R. Sofia DX 3/12 via gh) DX program to NAm remains sked Thu 2245, GMT Fri 0015, 0215, 0345, 0545. See LN-3 for freqs (gh)

**PROGRAM NEWS** CANADA Among my recommended favorites on the CBC Northern Service are: The Eclectic Circus with Allan McFee, Tue-Sat 0510-0600;

Nightcap presented for 2 weeks before Xmas 10-part serial reading of "7 Years in Tibet", absolutely engrossing, around 0442 each night. Tho the new CBC NS sked merely says "Comedy & Variety" Tue-Sat GMT at 0105-0130, the programs in this block deserve more mention; Tue, Dr. Bundolo's Pandemonium Medicine Show, similar to Royal Canadian Air Farce. On Wed, a quiz show. On Thu, Pulp & Paper--lampooning periodicals. On Fri, a serial "The Jokes About Hillary's (?) Fife (?), which I've taped but not listened to yet, hi. Sat, Our Friends the Flickers. Reception usually fair to good here on 6195 (gh)

**NETHERLANDS** R. Nederland's new Spanish lineup, in LAM xmsns at 2330, 0130, 0330: Mon, Sendas del Progreso; Deportes. Tue, Cronos; El Mundo de la Ciencia; Wed, Puento Internacional de la Amistad; Cude de su salud; Copa de Europa (in season). Thu, Panorama Cultural, Huellas de Antaño y Hogaño. Fri, Espacio DX-ista; Actualidades. Sat, Top-pop-graffía; and Experiencias Holandesas. Daily opener: Boletín de Noticias & Edición Especial. Suns: Estación de la Alegría (gh)

**SWEDEN** George Wood has visited the nomadic reindeer herders usually known as the Lapps, but who call themselves Samis. In four programmes he will be presenting the Samis' history and current problems, on Weds & Fris, 11 & 13 & 18 & 20 Jan (R. Sweden sked) This must be in the scheduled "Swedish Scene" and "Friday Special" programs, not on the Thu "People in Sweden" (gh)

**UKOGBANI** A few BBCWS picks from the extensive listings in London Calling: A Tour of Covent Garden, Sat Jan 21 at 1130, 22nd 1830, 2330. Take It Or Leave It, another quiz series with teams from international conglomerates, Suns 0330, Weds 1215, Thurs 1830, Fris 0830. Safety @ Sea, Sat 14th 1130, 15th 1830, 2330. I Was There, Suns 0745, Mons 0315, 1715, 2315, including witnesses to the Titanic, the Airship R101 explosion, the Nuremberg war crime trials Vintage Comedy, Suns 1430, Tues 0330, Thurs 1030, rounds Round the Horne, Take It From Here, The Goon Show, and Hancock's Half Hour. Am I Too Loud? with celebrated accompanist Gerald Moore, Suns 0545, 1945; Tues 0215, 1115. How to Be a Musician, Suns 2115, Tues 1615, Weds 1030. One Man's Bach with Antony Hopkins, 14th 0230, 18th 2030, 19th 1000, 20th 1430. The Cryes of London, 28th 0230, Feb 1st 2030, 2nd 1000, 3rd 1430. Ardently Loved Friend about Brahms and Clara Schumann, 7th 0230, 11th 2030, 12th 1000, 13th 1430. Paddy Feeny gives his personal "Don't Miss" pgms for Feb, on Jan 27 1415, 28 at 2315, 29 at 0515, 2100. These are also the times for Letterbox other weeks; note change to Sun 2100. The 2315 airing of Alistair Cooke's Letter from America moves from Mon to Sun, rest same. Space Fantasy and Reality is the Feb subject Sats 1130, Suns 1830, 2330, beginning with Life On Other Worlds.

**USA** Ben Grauer lived on some six months past his death via "New York, New York" reruns on VOA, but when checked 17/12, a new host had been found, Arlene Francis--an excellent choice. VOA seems to prefer well-known broadcasters who have been out of sight recently. Nyny airs Sats at 1130, 1530, 1830, 1930, Suns 0130 (gh)

**USSR** Some R. Moscow pgms to NAm: Moscow Review, daily 2330, 0130, 0330, 0500, 0700. Spotlight on Sports & Greetings from Moscow, Mons 2315, 0115, 0315, 0445, 0645. What Is Commu-

nism, Tue & Fri 2315, 0115, 0315, 0445, 0645. Soviet Way of Life, Wed 2245, 0015, 0215, 0345, 0545. Music At Your Request, Wed 2315, 0115, 0315, 0445, 0645. Round About the Soviet Union, Wed 0045, 0245, 0415, 0615. Science & Engineering, Thu 2315, 0115, 0315, 0445 and 0645. Moscow Mailbag, Sat & Sun 2315, 0115, 0315, 0445, 0645. Thinking Out Loud, Sun 2240, 0010, 0210, 0340-PCS, 0540. Days of week are NAM, not GMT (via Mac Leonhardt)

UZBEK SSR R. Tashkent has a weekly evening musical program on Thursdays (Utter, NY, 8/12)

**PUBLICATIONS** Australian DX News Effective 1 Feb, ARDXC will make substantial decreases in airmail dues for Eu & NAM, due to introduction of photo-reduced format. Details on rates, etc, from ARDXC National Secretary, PO Box 67, Hightett, Victoria 3190, Australia, enclosing sufficient IRCs to cover return postage of Club Publicity material (Bob Padula) ARDXC is the 'NASWA' of the southern hemisphere, and I recommend it highly. Hope more NAmS will now be able to join (gh)

The SW Radio Propagation Handbook fills a need for a not-too-technical book on the practical aspects of the subject. Ted Cohen and I have recently completed the text for this book, for the ham, SWL, CBER and others. It features 'do-it-yourself' forecast and prediction techniques in pretty simple to understand language. Cowan Publishing Corp. of Port Washington NY, who also put out CQ and S9, expect to have it ready for sale by March (George Jacobs)

H.I.C.C. Newsletter, Oct. edition, edited by Ian McFarland for the HAP International Coordinating Committee, contains a wealth of info on the worldwide programs to help handicapped DXers. Reports are given from Canada, USA, NZ, Europe, India. For a copy, send a large 13c SASE to Wayne A. Davis, HAP Director, 27 Cleveland Ave, Trenton NJ 08609 (ANARC)

Happy Station Fan Club Magazine is a 32-page FRENDX-size magazine, which is actually a general coverage SWL/DX club, devoting only 2 pages in the Dec issue to Happy Station itself. Also has columns on basic electronics, loggings, pen-pals, schedules, QSL-news, features, and a Tropical DXing column by Pitt McNeil which in this issue was instead about other clubs to join.. HSFC dues are \$6.00 per year for US, \$10 overseas. Published by Larry McKinney, 424 Grant Road, Adamstown PA 19501; monthly (via McKinney) xerox.

ECDXA Newsletter is produced by East Coast DX Alliance (ex-South Jersey DX Association) Dec. issue is 20p, also FRENDX-size. Tech articles, guide to pennants, skeds, tips, loggings, QSLs. Membership is limited to DE, MD, PA, NJ, NY, CT, MA, RI, for \$2.00 per year, or other parts of US & Canada for \$4.00 annually. Monthly; xerox (via Gerry Bishop, PA)

Receptor is a new monthly DX magazine in Spanish, featuring color reproduction of photos and headings. Among the sections are: Emisoras del Mundo; Radionoticias; Log Sección; Antenas; Jugando con los MHz; Rincón QSL; Correspondencia; etc. To pay for this twice-as-costly publication, rates have been raised, 80% of which will go for printing, and 20% for the maintenance of the Atlántico DX Club. Cost to LAm is US\$10 per year by surface mail, or US\$14 by airmail. Addr.: Receptor, Parque Residencial Guajara No. 96, La Laguna, Tenerife, Islas Canarias, SPAIN (ADXC1)

Space Environment Laboratory will conduct a workshop and want articles on the subject of solar-terrestrial predictions. Address inquires, deadline 1 Mar 78, to : Dr. R. F. Donnelly, STP/P-W Program, S.E.L., NOAA ERL, Boulder CO 80302 (via Ed Insinger, NJ)

L'Onde, published by the Club Ondes-Courtes du Québec, 28 pages monthly in French; club has 155 members. Sub is \$6 in Canada, \$7 in USA; \$8 elsewhere: COCQ, 3420 Chemin Ste-Foy, Apt. 5, Ste-Foy, Quebec, G1X 1S6 Canada (Pierre ---)

Broadcaster, Nov 1977 issue of this Canadian pub is the fall directory issue listing complete details on all Canadian radio, SW, AM, FM, campus, TV stations, cable tv, TV nets, news services, program distributors. \$7.50, from Broadcaster, 77 River St., Toronto, Ont. Canada M5A 3P2 (Tony Clift, Ont.)

**THE PULSER** (Cf Dec LN-7 and SCDX 22/11) Magne is definitely somewhat in error; we know for a fact that at least some of the lower powered (40 kW) SW radar units manufactured by Continental (E-Systems) use "pulsing on fixed frequencies"(SWNS)

**CONTESTS** ORF DX TROPHY For listeners to "SW Panorama" Austrian Radio is holding a competition for the DX Trophy to be awarded in gold, silver and bronze. It is open to every radio enthusiast interested in listening to stations from all over the world. The competition runs from 0000 GMT 1 Jan to 2400 GMT 31 Mar 1978. Participants must decide which class to enter--bronze, 6 hours; silver, 12 hours; gold, 24 hours. Reception periods lasting 30 mins are to be verified which add up to a total listening time of 6, 12 or 24h. For complete rules, and entry forms, which are required, write: ORF DX Trophy, Auslandsdienst auf Kurzwelle, A-1136 Vienna, Austria (Wolf Harrant, DX-Ed, via NASWA HQ)

Play-DX is holding a DX contest over 11 Sundays in 1978. For application forms and info, send 2 IRCs to Darío Monferini, Via Davanzati 8, 20158 Milano, Italy (SCDX 20/12)

Radio Nederland offers prizes to correct guesses received by 1 May, on which countries will place 1st, 2nd, 3rd in 1978 World Football Championships (current RN Dutch pgm booklet)

Because of past interests and present indications by many listeners, I am proposing to all DXers, SWLs, and listeners worldwide, a large scale monitoring and contest of the 120, 90, 75, and 60 meter bands. This to be held from 0001 GMT February 11, to 2359 GMT March 13, 1978. I would like to see as many listeners take part in this event, especially in hopes of making this an annual affair. Participation may be either as a contestant or as a monitor; and in some cases as both according to the rules. Results will be sent to all contestants, and those monitors who so request abiding by the regulations.

RULES FOR THE 1978 TROPICAL BANDS MONITORING and CONTEST

**A. Participation:**

1. **Contestants** send in entries: Contestants may enter in any one of the five categories; 120, 90, 75, 60 meters, or an all band entry. Contestants must mark each log sheet as "ENTRY". If a contestant wishes to enter the 90m contest, he may also be a monitor of any of the other bands. A contestant who enters the all band category will not be a monitor participant.
  2. **Monitors** send in loggings: Monitors may send in any loggings on any or all of the four bands, or any combination of bands. Monitors will omit the points sections column on his log sheets. Monitors will mark each log sheet "LOGGINGS".
- B. All participants should use a logging sheet format similar to that which follows, but all sheets must contain the date, time, frequency, station, country, and points scored (except monitor sheets) for each station heard entry.

DATE	TIME	FREQUENCY	STATION or SLOGAN, etc.	COUNTRY	PTS	TOTAL PTS
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Separate sheets must be used for each band, whether contestant or monitor. Actual entries need not be in frequency order, but it is suggested that each 100 kHz band segment could be on separate sheets, especially for those who anticipate many loggings in that segment.

- C. All participants must submit the following information; Full name, complete mailing address, receiver(s) used, antenna(s), and any accessories. Your main club affiliation is requested, but not actually required. See item F.
- D. Frequencies will be as follows: 2200 to 3000 kHz (120 meters); 3000 to 3600 kHz (90 meters); 3600 to 4200 kHz (75 meters); 4200 to 5100 kHz (60 meters). Frequencies are requested to the nearest kHz, but those with digital readouts or frequency measuring counters or similar are requested to state each logging to the nearest 0.1 kHz.
- E. Point scoring will be as follows: 2 points for any station in one's own continent; 5 pts for any station in any other continent; Separate loggings may be made of previously logged stations if by long path and will be awarded with 10. State all long path receptions with "LP" in the country column. All unidentified stations will be given 1 point. Utilities can be logged such as time stations, feeders, etc, but will not be given any points.
- F. Prizes will be awarded to contestants in this manner; Each of the five categories will have a 1st, 2nd, and 3rd place winner. A cash prize of \$5 for 1st, \$2 for 2nd, and \$1 for 3rd place winners along with a certificate of merit. Monitors will receive certificates of merit in the same fashion under the five categories. The club with the highest membership/participation ratio will be awarded a special certificate of merit. You are therefore urged to mention your main club affiliation; only one per individual.
- G. All entries must be postmarked no later than April 1, 1978 and in my hands no later than April 22, 1978. This applies to all participants. All entries become the property of J. Young and none will be returned.
- H. Entering Requirements:
  1. Contestants are required to send one SASE franked with 24¢ in stamps along with a 50¢ entry fee to cover the cost of Xerox machine, handling, and mailing. Overseas contestants send one SAR with 3 IRCs (6 for airmail return).
  2. Monitors are not required to send any fee or SASE's. However, if a monitor wants a list of loggings, participants, etc, an SASE (24¢ in stamps) must be enclosed. Overseas monitors send an SAR with 2 IRCs (4 for airmail return).
- I. Results to be mailed to all contestants and those monitors requesting so will be sent the entire participants name, scores, winners, and a complete list of the loggings for all the four bands monitored.
- J. The honor system will prevail! Station ID's will not be required, but if you think list logging is an easy way towards a prize, forget it. I can assure everyone that each entry will be carefully and completely checked. Entries and loggings from experienced DXers will help serve as guide lines in the final judgements. All results will be final.
- K. All monies for the prizes will be awarded and are being furnished by and guaranteed by J. Young. J. Young will not be eligible for any award or certificate. Any additional monies or donations will be used to raise the cash prizes accordingly. This is your contest. Comments, suggestions, and/or criticisms are welcomed now or with your entry. J. Young may solicit certain participants to act as additional judges. A complete accounting of all monies and donations will be made available upon normal SASE request.
- L. Address all loggings, entries, and/or correspondences to:
 

Mr. James W. Young, P.O. Box 576, Wrightwood, CA 93497, USA (Young, 2/12/77)

Radio Habana Cuba is holding its 15th annual essay contest, prizes for which are 5 all-expense-paid trips to Cuba during the 25th anniversary of the attack on the cuartel Moncada, 26/7/78, lasting two weeks. Deadline for receipt in Habana is 31/3/78. 500 word limit. Should be accompanied by entry form available on request. Write on this theme: What do you know about World Youth and Student Festivals? What is the importance of the 11th World Youth and Student Festival, held in the Americas during 1978? One of the five prizes will be awarded to the best work published or broadcast, no word limit, copies of which must be furnished. Write RHC, Box 7026, Habana, Cuba (gh: this is translated from a flyer in Spanish, so the wording may be somewhat different in their own English version)

## IN MY OPINION

(Ed. Note: The Great Lakes DX Association went out of business with its Nov. 1977 issue of "Newsmemo". Excerpted here are some of editor Bill Whitacre's parting shots:)

DXdom, like society, has grown up - and has indeed suffered many growing pains in the process. We've seen the ever-present mixed blessing of specialization and decentralization. We've seen a resulting and continuing decrease in the quality of the 'old stand-by' national publications; and in the process watched NASWA not so successfully survive a coup, of sorts, that has rendered it almost as useless as the other SW publications to the person who cares to do more than read Hauser's harangs or claw their way through an ever-cluttered LN or tune in EE language broadcasts to hear their favorite SW un-personalities. We've seen such new words as 'elitist pig' and 'list logger' enter our expanding, derogatory vocabulary. These and many other terms have been developed to fuel a rhetorical campaign that has divided and continues to divide the SWBC listening hobby into the 'DXers' and the 'listeners' -- and apparently ne'er the two shall meet, again! ...

The progressive loss by the national SWBC publications of a solid "DX" base has been accelerated and the cream-of-the-crop "macho-DXers" have found new means of getting the news out fast and sharing their views. Between this loss of solid DXers and the overwhelming membership increase in NASWA the whole situation more or less hit the fan. No longer was there time to work people into the hobby; everybody had to be an instant DX-success. Thus came the super-DXers: the McNiels, the Routenburgs, the Youngs, the Bartos, etc., etc. -- how DID they do it?? Meanwhile in another corner good ole' gh started telling us about listening to program content on SWBCers--after all that's what they're on the air for! Well many of these newcomers to the hobby just loved that, instead of becoming a dubious overnight sensation and be called a list-logger, they could use their cheap little portable and comment on the latest RCI program cuts or some such. There was no desire to progress in the hobby as we had known it. Thanks to Glenn's assertiveness and abrasive "Don't You Believe's", otherwise valuable space was wasted in an otherwise alright bulletin. Thus the stage was set, the lines were drawn--the Jensens in one corner and the Hausers in another (leaving the Shaws in the middle to take care of those DXers who held on to NASWA).

The world GLDXA was launched into has reverted into a mud-slinging side show where, as Bob Hill so characteristically put it, "You're either with us or agin' us." It has become progressively harder to put out a bulletin for everyone in this atmosphere--so why fight it, why should we continue to cater to an audience that's just not there anymore....

Diane Lévesque: I would like to address you as both a NASWA Council member and a member of Número Uno. I've noticed a lot of NASWA bigwigs, past and present, belong to NU, so I feel I am entitled to a detailed explanation of this club's exact relationship to NASWA. I have not made a secret of my opinion that the hullabaloo we've witnessed thru FRENEX was not NASWA editor problems with HQ, but actually NU's internal struggle, as yet undefined. This opinion is based not only on the out-of-character actions by parties involved but also on the noticeable NU influence on NASWA in the past and 'the grapevine'.

I could be wrong, but if NU has any relationship to NASWA other than what, say, the Miami Valley DX Club has, I sure as hell would like to know about it--and I'm sure other members would. If NU is such an exclusive club, then we shouldn't have to hear about it--and I for one would like to see it divorce itself from NASWA. I would also like to see more non-NU editors and a completely non-NU executive staff, for as it is, we've too many people in there with conflicts of interest....

gh replies to this: You're imagining things. You also overlooked the fact that I was expelled from NU a year ago, as noted in Feb 1977 LN-10! There was, and is, very little relation between NU and NASWA. DXer types in NU probably wish they did have the influence on NASWA you imagine, witness Whitacre's lament above. A very few NASWA editors may also still be NU members, but that's their business. I no longer have access to NU's membership list. Retiring NASWA publisher Al Mayer was an NUer, but his conduct in NASWA has been beyond reproach, and he deserves a tremendous vote of thanks for getting FRENEX out so reliably these many months. To my knowledge, no other members of the NASWA EC are also NUers. NU would like nothing better than never to be mentioned in FRENEX. I do so from time to time, because I think it is important to be reminded that there is a closed DX organization hoarding its DX information from the rest of us. The main 'conflict of interest' is that NU head Don Jensen is also NASWA's Country List chairman, but he likes doing that altho refusing to participate in DX news dissemination, and NASWA HQ accepts that status quo. (see DZB pg. 44)

# QSL REPORT



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

As announced in the December issue, Bill Oliver has taken on a more demanding assignment in NASWA as its publisher. I'm sure that we all wish Bill well in his new duties. Bill asked me to include the following note:

"Sam Barto is taking over the "QSL Report" with this issue and I'd like to use a few lines of Sam's space to thank you all for the fine cooperation you've given me over the last two years. My special thanks goes to those who were kind enough to send 'best wishes'. I know that I leave you in capable hands: Sam has over 10,000 QSL's...I don't have to say any more than that!"

Thank you Bill for the kind remarks...and now on to the QSL's.

- AFGHANISTAN: Radio Afghanistan, 15365. f/d map and Buddah card in 47ds. 1 IRC and postcard (McCarthy). same card in 1½ mo. for 2 IRC's (Lobdell). 15265 card, sked and letter in 36 ds. via registered mail. Sent cassette tape and 2 IRC's (Pineault).
- ALBANIA: Radio Peking relay, 9780. "Rose" card in 14 ds. (Fraser). Radio Tirana, 7065. "Revolutionsaire" card and sked in 82 ds. This is my first reply in over 6 years from this station! (Alexander).
- ANTIGUA: Deutsche Welle, 6040. no data card w/ letter explaining QSL policy in 3 mo. (Sillings). 11810 card in 70 ds. (Valko). (Fedor).
- ARGENTINA: LOL, 10000. letter via registered mail in 90 ds. for SP report.
- ASIATIC RUSSIA: Radio Moscow via Irkutsk, 15420. f/d card, badge, and report forms in 45 ds. (Neff). via Vladivostok, 12000. and via Khabarovsk, 12050. f/d cards in 38 ds. (Alm).
- AUSTRALIA: Radio Australia, 15320. "Parakeet" card in 92 ds. for 1 IRC (Sandborn). 15320 "Fringe Lily" card in 2 mo. (Stanziale). 9580 f/d card in 38 ds. for 1 IRC (Russell). 9580 f/d "White Flowering Mallee Gum" card in 20 ds. for 1 IRC (Fraser). 9580 f/d "Blue Wren" card in 261 ds and for 3 IRC's (Vargo). Seems rather long for 3 IRC's...Sam.
- AUSTRIA: ORF, 9770. "Adam" card and report forms in 63 ds. (Alexander). 9770 "Lovers" card in 42 ds for 1 IRC. (Fraser). 9770 "Snail with Castle" card and sked in 5 wks for 1 IRC. (Stanziale).
- BANGLADESH: Radio Bangladesh, 15220. f/d paper QSL w/ personal message in 2 mo. for EG report and a Canadian coin (refer to last page) V/S Mohamed Khalilur Rahman, Research Engineer. (Hywarren).
- BELGIUM: ORU, 6080. f/d blue "Globe" card by air in 31 ds. for 1 IRC. Tourist brochure and schedule also received. (Fraser)
- BELIZE: Radio Belize, 3285. card in 12 ds! This is my quickest reply! (Valko). card in 43 ds. (George). 3285 "Map" card in 25 ds. for 1 IRC (Hoffman).
- BONAIRE: TWR, 15255. card in 30 ds. (McKinney).
- BENIN: ORTE, 4870. f/d card in 1 mo. for EG report (Valko). in 28 ds. (George). card w/o time in 3½ mo. for FR report (Fedor).
- BRASIL: Radio Relogio Federal Ltda., 4905. card in 2 mo. Addr: Av. Presidente Vargas, 417-A, 18 andar, Rio de Janeiro. (Barto). Lins Radio Clube, 3225. postcard in EG! in 1 mo. for PT report. V/S Vera Cristina Martins. Discotecary (?). (Barto). Radio Cultura do Para, 5045. letter w/ freq., station info, and QSL statement in 55 ds. for PT report and mint stamps. Received 1 IRC from the station. (Hoffman). same in 2½ mo. for PT report and stamps (Barto).
- BULGARIA: Radio Sofia, 7100. card, sked and monitor form in 73 ds. for 1 IRC. (Dawson). 9705 "Climent of Ohrid" card in 16

RÁDIO

CAIARI



A MELHOR COMPANHIA

- days. (Fraser).9530 f/d card in 6 wks.(Bohlike)."31" mb card in 70 ds arrived w/ letter and diploma info.(Russell).
- BURUNDI:** RN du Burundi, 3300. folder card w/ sked in 1 mo. for FR report & a penny. V/S "Le Chef du Service Technique"(Hywarren)...Very Nice!
- CAMEROON:** Radio Garoua, 5010. very friendly personal letter from Jim Anchanyi Pontem in 25 ds for FR report(Fedor).same in 42 ds. for 2 IRC's (Hoffman). Radio Yaounde, 4972.5. f/d "Map" card in 5 mo.(Hywarren). same in 2 mo. for FR report(Barto).9740 card in 65 ds. for EG report and 2 IRC's(Mosman).
- CANARY ISLANDS:** RTVE, 11880. f/d card in 50 ds. They returned my IRC.(Sandborn)
- CANADA:** CHU, 14670. card w/ freq. in 31 ds.(Sandborn). CKZU, 6160. card in one week. V/S F. H. Buchen(Hywarren).CFRX, 6070. "Boat" card in 11 ds. for 1 IRC(Burns). CHNX, 6130. card in 17 ds. for 1 IRC(Fraser). same in 8 ds. V/S Judy Carruthers.(Weber).  
Radio Canada International, 11845. "Satellite" card in 33 ds.(Stanziale). CBC-NS "Horizon Sun" card in 10 ds.(Pineault).
- CHAD:** RNT, 4904.5. f/d "Three Scenes" card in 21 ds. via air for FR report and 1 IRC.(Onken).same card in 20 ds. for EG report & 1 IRC(Bohlike).
- CHINA, PEOPLES REP:** Radio Peking, 9780. f/d card in 21 ds. Sked, letter and magazine received.(Russell).9460 card in 2 mo.(Barto).15060 card and sked, pin in 30 ds.(Pineault).same freq. in 16 ds.(McCarthy).
- COLOMBIA:** La Voz del Norte, 4875. post card QSL in 2 1/2 mo. for SP report, mint stamps and a tape(Lazarus)...Nice to hear from you Henry. Send me Nortes address...Sam. Ecoss del Combeima, 4875. f/d letter in 3 mo along w/ stamps, stickers and a 1&2 peso note. V/S Alfonso Tovar S.. Address: Apartado Aereo 1788, Ibaque. (Barto).
- COOK ISLANDS:** Radio Cook Islands, 5045. 2 f/d cards for report in 76 and in 77 in 1 mo. after sending @ 1 lb of material to them including my report. V/S Nooroa Tangaroo. (Hywarren).9695 "Man and Shell" card in 1 mo. for 3 IRCs. Address: Cook Islands B/Cing and Newspaper Corp., P.O. Box 126, Avarua, Rarotonga. Nice personal note was also received. (Berg)...Great QSL's from both of you!
- CUBA:** Radio Habana Cuba, 9525. f/d card and letter in 160 ds. (Ventura). 9685 card in 10 wks. for Gilfer form(Seitz).  
9585 f/d card in 88 ds. for 2 IRC's(Vargo).11930 f/d card in 2 mo. (Stanziale).17750 card in 60 ds. and 2 bookmarks for EG report.(Fraser).17885 f/d card in 93 ds. along w/ magazines, newspapers,etc.(Russell).
- CYPRUS:** Cyprus Broadcasting Corp., 9770. card in 5 wks.Address: P.O. Box 1924, Nicosia. (Barto).
- DENMARK:** Radio Denmark, 15165. "Radiohouse" card in 20 ds.(McKinney).
- DODECANESE ISLANDS:** VOA RHODES, 6015. f/d "Stamp" card in 10 ds.(Blossom). 6015 card and frequency schedule in 1 wk. (Alexander).
- ECUADOR:** La Voz del Rio Carrizal, 3260. card and letter in 5 wks. for SP report and used stamps. V/S Alicia Navarrete, Secretaria. Station is still using old 3630 kc/s on their letterhead.(Barto).  
HD210A, 7600. f/d folder and letter arrived in 52 days for 2 IRC's. Station schedule was also received.(Baum). Very nice catch!  
Radio Zaracay, 3390. letter w/ freq. and verie statement was received in 69 ds. for mint stamps. Also received a gold, red pennant.(Hoffman). See QSL-3. Station must have 2 pennants they use!...Sam.

1973  
LANZAMIENTO  
DEL PRIMER  
SEÑALO DE LA  
RADIO  
COLOMBIANA



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la mejor al lado



GOVERNO DO ESTADO DO PARÁ  
FUNDAÇÃO DE TELECOMUNICAÇÕES DO PARÁ  
RÁDIO CULTURA DO PARÁ

**Q S L**

Emissora	RÁDIO CULTURA DO PARÁ
Endereço	VILA DE MARITUBA - MUNICÍPIO DE BENEVIDES
Vínculo	FUNDAÇÃO DE TELECOMUNICAÇÕES DO PARÁ
Prefixo	ZYG 360
O. Tropicais	60 METROS
Frequência	: 5.045 KHZ
Potência	: 10 KWS
Horário	: DAS 06:00 AS 24:00 HORAS
Objetivos	: RÁDIO EDUCATIVA, INFORMATIVA E MUSICAL

Confirmamos seu Relatório de Recepção e agradecemos a colaboração, colocando-nos à disposição para quaisquer outras informações.

- ECUADOR: Radio Zaracay, 3390. letter and pennant in 5 wks.  
 QTH: Santo Domingo de los Colorados (Barto).  
 HCJB, 11915. "Power Plant" card in 26 ds. (Sandborn). same in 5 wks. (Stanziale). same in 33ds. (Fraser). same in 1 mo. (Burns). 11915 cards for 3 receptions "TV Transmitter overlooking Cuba", "Ham Radio in Shell", and "Old Fashioned Melodies TV Program" (Lobdell). 6160 "Call of the Andes Production", 11915 "Hydroelectric Power", 17890 "Antenna Switching Unit", 15300 "Antenna Raising" (Lobdell). 6160
- EUROPEAN RUSSIA: Radio Moscow via Moscow dell. on 15360, via Kenga on 15425 for the South Asian Service, via Serpukhov on 17900 for the same service in Nepalese and in Bengali. (Barto). via Serpukhov on 15505 in 42 ds. (McCarthy). on 7150 and 7320 for the LA Service in 1 mo. on 7240 for same service in 5 wks. on 11710, 11700, 9550, 9520, 9490, 9450, 7380, 7280, and on 7240 for the SF Service to Chile in 1 mo. (Barto). Help Roger. Radio Station Peace and Progress, card and EG/CH sked in 30 ds. (Weber). 12025 f/d card, sked in 38 ds. (DeLong).
- FEDERAL REP. OF GERMANY: Deutsche Welle, 6010. card in 139ds for 1 IRC. (Fraser). no data card and pennant in 54 ds. (Gercken). 6075 same card and pennant in 79 ds. (Burns). 6185 card in only 265 ds! (Desrosiers). 9545 card in 26 ds! (McKinney). Radio Free Europe 7190, card and sked in 30 ds. (Weber). 15170 card from D.C. in 32 ds. for an EG report (Burns).
- FINLAND: Radio Finland, 15265. "Flag" card in 33 ds. for 1 IRC. (Stanziale). 15110 in 6 wks. (Seitz). 15110 in 33 ds. (Burns). 15105 card in 30 ds. (McKinney). same in 24 ds. (Fraser).
- FRANCE: Radio France International, 15215. "Couleurs et Lumiere de France" card, sked and stickers in 5 mo. for 2 IRC's (Dawson). 15300 same card in 33 ds. (Burns). 15200 same in 2 mo. (Stanziale). f/d card in 55 ds. (Russell).
- FRENCH GUIANA: FR3 Cayene, 4972 and 3385 card in 1 mo. Address: FR3, B. P. 336, 97305 Cayenne, Guyane (Hywarren).
- GEORGIAN SSR: Radio Moscow via Tbilisi on 9760 in 30 ds. (Pineault). 7185 in 29 ds. VIC # 123 (Wiles)... Congrats! (Wiles).
- GERMAN DEM. REP: Radio Berlin International, 9730. card in 60 ds. (McKinney) same plus "RBI Journal" in 46 ds. (DeLong). card in 7 wks. (Stanziale)
- GREAT BRITAIN: BBC, 9410 "Bridge" card in 41 ds. (Zajda). no data in 14 ds.
- GREECE: Voice of Greece, 9760. f/d card in 24 ds. (Burke). same in (Russell) 27 ds. for 1 IRC, US FDC (Stanziale). 11730 card and sked in 21 ds. for 1 IRC (Dawson). in 31 ds. (Wori).
- GRENADA: Radio Grenada, 15105. f/d card in 66 ds. for 2 IRC's (Zajda).
- GUAM: KTWR, 9640. f/d 2 color card in 28 ds. V/S Teresa Jones (Blossom). card in 2 wks. V/S Linda Horton. VIC # 1501 (Hywarren)... Nice even number... Sam. 15115 in 4 wks. (Lazarus). card & sked in 24 ds. (Fedor).
- GUATEMALA: Radio Cultural, 3300. card, letter, sked, travel info and rel. materials in 41 ds. for 1 IRC (Alm). in 1 mo. for 1 IRC (Stanziale). in 34 ds. (Pineault). in 26 ds. (Burns). in 120 ds. for 2 IRC's (Webber).
- HAITI: Radio Station 4VEH, 9770. f/d card, form letter in 149 ds. (Weber). for US mint stamps. V/S Lina seachy. (Weber).
- HUNGARY: Radio Budapest, 9585. f/d card in 31 ds. for 1 IRC. Sked and pennant also received. (Sandborn). 11910 card, info in 3 mo. (Russell).
- ISREAL: IBA, 9815. "Jerusalem Painting" card, sked in 2 mo. (Stanziale). 7412 card in 1 1/2 mo. (Russell). 9815 f/d card and sked in 59 ds. (Zajda).
- ITALY: RAI, 11810. "Amore e Psiche" card in 112 ds. for 1 IRC (Desrosiers). 9575 "Il Pescatore" card in 180 ds. for 1 IRC (Onken). same in 65ds. for 1 IRC (Sandborn). "Il Settecento" card in 10 wks. for 1 IRC (Stanziale). 6010 card in 57 ds. along w/ magazine and sked (Russell).
- IVORY COAST: RTVI, 11920. f/d map card in 19 ds. for EG report and 3 IRC's. (Vargo). 4940 card in 28 ds. for FR report and 1 IRC. (Onken).

# RADIO ZARACAY

365 Kc.

ONDA

LARGA

90 MIS  
ONDA  
MEDIA

SANTO DOMINGO  
DE LOS  
COLORADOS  
ECUADOR  
S. AMERICA

- JAPAN: Radio Japan, 15105. "Water Lilies" card in 1 mo. (Stanziale). "Hakata Doll" card, sked, nx paper in 15 ds. (Stanziale). same in 3 wks. (Lobdell). 15270 same card in 25 ds. (McKinney). same in 26 ds. for 1 IRC which was returned (Fraser). "Pagoda" card in 26 ds. (Ohtake). card in 11 ds! Extremely fast reply. (Conrad). Bakuli (Berg).
- KENYA: Voice of Kenya, 4804. aerogramme letter w/ f/d in 1 mo. V/S Rashid
- KIRGHIZ: Radio Moscow via Frunze on 15500, card in 2 mo. for the South Asia Service in Nepalese (Barto).
- KUWAIT: Radio Kuwait, 12085. f/d folder card, sked in 51 ds. (Baum). same in 2 mo. (Russell). tseva (Valko).
- LATVIAN SSR: Radio Riga, 5935. f/d green and white card in 47 ds. V/S Brjan-LIBERIA: ELWA, 11945. f/d "Native Drummer" card in 6 mo. for 1 IRC (Onken).
- LUXEMBOURG: Radio Luxembourg, 6090. f/d card in 3 1/2 mo. for 1 IRC (Dickson).
- MALAWI: MBC, 3380. f/d mimeo letter in 9 mo. for 2 IRC's. V/S M.J.F. Chapman (Overcamp). same in 86 ds. for 1 IRC (Hoffman). same in 107 ds. for cassette tape and 1 IRC. Thanks to V. Jaar for phone tip (Pineault).
- MALTA: Deutsche Welle, 6100. 2 cards in 6 days apart for 2 receptions (De-Long). IBRA Radio via Radio Mediterran on 5990, map card of Malta in 1 mo. for 1 IRC. Report went to Sweden. (Lobdell).
- MONACO: TWR, 11705. f/d card in 5 mo. Earlier reported as Guam (Overcamp).
- MONTSERRAT: Deutsche Welle, 9590. f/d card in 3 mo! (Hywarren). no data card in 146 ds. w/ letter requesting SASE (Valko)...Thats new!
- MOZAMBIQUE: Radio Mocambique, 11820. date, freq, and QRP card in 1 mo. for EG report. Postmark still reads Lourenco Marques not Maputo. What is their problem? (Hywarren)...Overzealous name changing nationalism! 3210 f/d card in 84 ds. for 3 IRC's (Ravenhorst). Greg see FRG for RFE
- NEW CALEDONIA: FR3, 3355. orange and blue card in 3 wks. for FR report. (Barto). 7170 same f/d card in 33 ds. for 1 IRC and Gilfer rpt (Hoffman)
- NIGERIA: Radio TV Kaduna, 6090. letter from Yusufu Ladan in 2 wks. (Hywarren). Voice of Nigeria, 11770. f/d card in 54 ds. (Gercken). 7275 f/d card and sked in 1 mo. for US stamps and postcards (Lobdell) same in 35 ds. (McKinney). NBC via Sogunle on 4990 in 60 ds. for 1 IRC. (Desrosiers)...See below. NBC via Jos on 5965 and via Ilorin on 7145, letter from Alphonsus N. Ezinwa (Barto).
- NORWAY: Radio Norway, 15175. "Waterfall" card in 28 ds. for 1 IRC (Burns). "Jolstervatnet" card in 67 ds. along w/ small flag (Baum). "De Syv Sostre" card and sked in 1 mo. for 1 IRC (Stanziale). f/d card and flag in 80 ds. (DeLong).
- PAKISTAN: PBC, 11640. "Lahore Tower" card in 71 ds. for 2 IRC's. (Mosman).
- PAPUA NEW GUINEA: Radio North Solomons (formerly Bouganville), 3322.5. letter in 34 ds. from Aloysius Sahoto, Station Manager for 2 IRC. (Word). Radio East Sepik, Wewak. letter w/ date in 1 mo. for 3 IRC's and used stamps. V/S Philip Koviromo, Station Manager (Berg). NBC, 4890. Port Moresby. map card and pennant in 25 ds. for 2 IRC's (Word)
- PERU: Radio Atlantida, 4791. 2 letters on the same day from Julio Reategui Burga. Station enclosed postcards of natives in their ceremonial un-dress costumes! (Barto). Radio Nacional de Peru, 6082. card and letter in 3 1/2 mo. for SP report. V/S Edna Almandoz M. Station sent along a beautiful pennant! (Barto).



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5th November 1977

*J. Desrosiers*  
*1063 Burnett Road*  
*Chicago.....*  
*MA 02120...*  
*U.S.A....*

Thank you for your reports of 29th Sept  
 1977. at 0447-0530 hrs. GMT. I  
 have pleasure in confirming that the  
 transmission was from our HOME SERVICE  
 transmitter on .....  
 ...4990.KHZ. Located at *Sogunle*.

NASWA-FRENDX QSL-5 JANUARY 1978

**PHILIPPINES:** VOA, 6010. "Stamp" card in 6 ds. (Fraser). FEBC, 17810 green card w/ house drawing in 35 ds. for 2 IRC's (Pineault). Radio Pilipinas, 9580. f/d card and questionnaire in 7 mo. for 2 IRC's. (Dickson).

**PORTUGAL:** Radio Portugal, 11935. "Camp ground" card in 27 ds. (Sandborn). same card and personal letter and sked in 1 mo. for used stamps, US FDC (Stanziale) same in 38 ds. (Weber). same in 22 ds. (Baum). same in 33 ds. w/ letter from the DX Club (Russell). Adventist World Radio, 9670. f/d card, sked, info. sheet in 18 ds. (Sillings). IBRA Radio via Radio Trans Europe, 9760. f/d card, pennant, sked, and letter in 1 mo. Station also sent 2 Swedish coins. (Sillings).

**ROMANIA:** Radio Bucharest, 6155 and 15250. f/d cards w/ personal letter in 132 ds. for 2 IRC's. (Russell). 11940 card, sked in @ 1 mo. (Sillings). same in 92 ds. for 1 IRC (Neff). 5990 card and sked in 70 ds. (Baum). 11735 "Cable Car" card in 60 ds. (McKinney). 15365 same card in 95 ds. for 1 IRC (Desrosiers). 9570 "Art" card in 45 ds. (McKinney). same w/ sked in 37 ds. (Alm). same in 45 ds. for 1 IRC. Also received stickers, sked, and club data (Sandborn). same in 60 ds. plus a badge for 4 IRC's (Zajda)...Don't send so many IRC's - save your money.

**SEYCHELLES:** FEBA, 11945. f/d "Map" card, sked in 29 ds. for 2 IRC's. VIC # 501 (Alm)...Great verie for number 50...Sam. 11800 f/d card in 28 ds. (George). card in 1 mo. V/S Liz Scott, QSL Secretary. Sent 3 IRC's. (Berg).

**SOMALI REP:** Radio Mogadishu, 9585. f/d "Antenna Tower" card in 50 ds. for 3 IRC's and an EG report (Hoffman).

**SOUTH AFRICA:** ZUC, 5000. f/d letter in 27 ds. V/S R. Lake. Got this one on my birthday. (Valko)...Good present! same in 3 wks. (Alexander). Springbok Radio, 4310. f/d card and letter in 32 ds. for 1 IRC. Also sent their pennant and sked. (Burns). Radio RSA, 11900. f/d "Giraffes" card in 28 ds. (Burke). 7270 f/d "Soutaern Africa Sunset" card in 17 ds. for 1 IRC. (Burns). 9585 "Sunset" card in 32 ds. (McKinney). 5980 card and letter, sked and "RSA Calling" in 16 ds. (Russell).

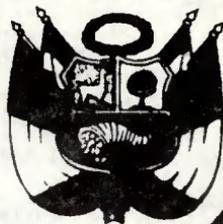
**SOUTH KOREA:** Radio Korea, 11860. "Commerative Stamp" card honoring the 50th anniversary of the KBS in 2 mo. (Barto). "Staff Member" card in 6 mo. for 1 IRC. (Pineault). 9640 f/d card, sked and forms in 36 ds. (Alm).

**SPAIN:** RTVE, 11880 f/d card, sked in 1 mo. (Russell)...Could this be the Canary Islands site?...Sam. same in 29 ds. (Sandborn).

**SRI LANKA:** Glenn Hauser passes on the following: Oliver T. Goonawardena of Sri Lanka informs us that reports to the SLBC should be addressed to the Superintendent Engineer, Mr. Herath for prompt replies. All reports received by him are verified within a weeks time by air mail. Take note McCarthy...Thanks Glenn...Sam. (McCarthy).

**SUDAN:** Radio Omdurman, mimeo letter in 50 ds. for EG report and postcard.

**SWAZILAND:** Swazi Commercial Radio, 3223. card in 1 mo. from Bill Gookson, Chief Engineer. (Barto).



OAX-4A-Onda Media. 854 KHZ

OAX-4R-Onda Corta. 8882 KHZ

OAX-4Z-Onda Corta. 8582 KHZ

DESDE LIMA

**RADIO NACIONAL  
DEL PERU**



- SWAZILAND: Swazi Radio, sent postcard w/ verie statement on the back. This was after 5 reports and 3 years work, covering SAR and SCR. Card say station is Radio SR. V/S Bill Cookson, C.L.(Berg). Trans World Radio, f/d card in 25 ds. and 3 IRC's. V/S J. Olson. (Conrad).
- SWEDEN: Radio Sweden, 15305. "Northern Lights" card in 31 ds. for 1 IRC.(Burns).same in 2½ wks.(Russell).
- SWITZERLAND: SBC, 11715. f/d card and sticker and sked in 2½ mo. (Sillings).same w/ "SBC Building in Berne" card in 93 ds.
- TAIWAN: Voice of Free China, 17890. "Four Magpies" (Yacono) card, pennant and sked in 49 ds. for 1 IRC.(Dawson). same f/d verie in 10 ds. (Pineault).
- TUNISIA: RTVT, 7275. f/d "La Marsa Cafe du Saf-Saf" card in 40 ds. for EG report and 1 IRC. (Bohlke).
- TURKEY: Voice of Turkey, 9515. "Mosque" card, pennant, sked and tourist info. in 28 ds. for 1 IRC.(Dawson) "Dragon" card in 58 ds. (McKinney).
- UKRAINE: Radio Kiev, 7150. "Taras Shevcheko Monument" card in 10 wks. for 2 IRC's and a Gilfer report form.(Seitz). 9720 "Exhibition" card in 107 ds. (McKinney).
- UPPER VOLTA: Rdf. TV Voltaique, 4815, letter in 1 mo. for FR report and a coin.(Hywarren). mimeod letter w/ map and sked on the front in 1 mo. for 3 IRC's.(Berg).
- USA: KGEI, 5980. f/d card, questionnaire, sked in 36 ds.(DeLong). same w/ religious data in 41 ds. (Blossom). WINE, 17720. f/d card in 6 ds. for a SASE(Baum). United Nations Radio, 6055. blue and white crest card and sked in 45 ds. (Dawson). VOA Dixon, 11920 f/d card in 16 ds. V/S Monica Reyes. (no name). VOA Delano, 6185. f/d "Stamp" card in 1 mo.(Sillings) VOA Bethany, 17710. f/d card in 5 ds. (Sandborn).
- USSR: Radio Station Peace and Progress, 9810. partial data "Carnation" card in 1 mo. (Bohlke). Radio Moscow, 9680. card in 42 ds.(Fraser).7100 card in 35 ds. for 1 IRC.(Burns).7250 card in 37 ds.(Baum). 7160, 7130 and 7350 in 1 mo. w/ letter and sked(Russell).
- UZBEK: Radio Tashkent, 11730. f/d card in 49 ds. for 1 IRC. Great stamps on the envelope.(Blossom)...Over the years I've noticed that this station is one of the most friendly to its reporters of any in the world...Sam.
- VATICAN: Radio Vatican, 17900. f/d "Studio" card in 22 ds.(Burke). 9605 same card in 19 ds. for 1 IRC. (Dawson). same in 12 ds. for 1 IRC. (Zajda).
- VENEZUELA: Radio Juventud, 4900. f/d "Dancers" card in 44 ds. via registered mail for a SP report and 1 IRC. This was my first report written in Spanish!(Sandborn)...Write many more and your mailbox may get top heavy...Sam. Radio Rumbos, 4970. f/d card in 126 ds. for SP report and 1 IRC.(Alexander). La Voz del Tigre, 3255. letter and pennant in 2 mo. for a SP report and used stamps. V/S Graciela Cedeno, Dpto. de Medios. (Barto).

the voice of  
TURKEY



TRT

Eagle of Seljuk

WEST IRIAN: RRI Sorong, 4875. f/d EG card in @ 2 years. Patience has its rewards!(Lineback)...Looks like Sorong is clearing out a backlog of reports as many DXers are starting to receive replies.

YEMEN, PEOPLES DEM. REP: PDRYBS, 7190.

f/d antenna card in 65 ds. for an EG/AR report, postcard and 1 IRC. (McCarthy).11770 same card in 3 mo. from V/S Abdulaziz Giuaidi for an EG report and a coin. (Hywarren).

\*\*\*\*\*

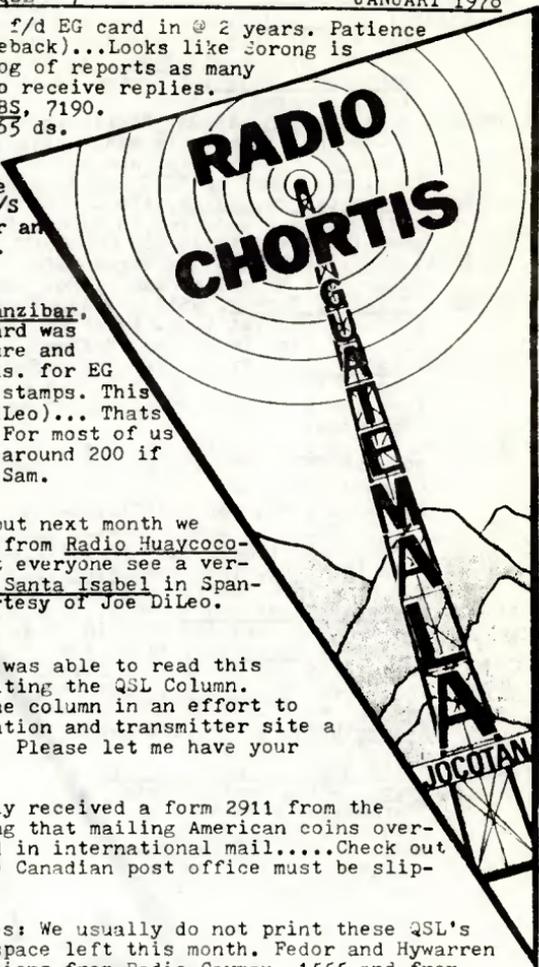
\* ZANZIBAR \* Radio Tanzania Zanzibar, 3339. Prepared card was returned with signature and station stamp in 39 ds. for EG report and Tanzanian stamps. This was my VIC # 161! (DiLeo)... Thats some number 161 Joe. For most of us this comes somewhere around 200 if at all. Great QSL!...Sam.

Too late to include but next month we will report on a QSL from Radio Huaycoco-tla in Mexico and let everyone see a verification from Radio Santa Isabel in Spanish Guinea. Both courtesy of Joe DiLeo.

I hope that everyone was able to read this first endeavor at editing the QSL Column. I have reorganized the column in an effort to have the country, station and transmitter site a bit easier to locate. Please let me have your comments...Sam.

Dan Meinhardt recently received a form 2911 from the US Post Office stating that mailing American coins overseas is not permitted in international mail.....Check out Hywarren's QSL's - the Canadian post office must be slipping...Sam.

A few mediumwave notes: We usually do not print these QSL's but we do have some space left this month. Fedor and Hywarren both report verifications from Radio Cayman, 1555 and from Kwajalein Island in the Pacific. Verneti reports verifications from the Solomon Islands on 1030. WSZO, 1500 on Majuro Island and from Radio Tarawa, 844 in the Gilbert Islands.



RADIO

Das a Polskie Radio.

SZCZĘŚLIWEGO NOWEGO ROKU!  
A PEACEFUL AND PROSPEROUS NEW YEAR!



EUROPE

SUNDAYS, 6250KHZ  
49M. SW.



Warszawa

Sam

# update

January 1978 Number 10

Tom Alleman  
615 W. 43rd Terr., Apt. 6  
Kansas City, MO 64111  
(816) 931-5943 0030-0500 GMT

UPCOMING DEADLINES: 12 January (Mid-Jan); 23 January (February); 12 February (Mid-Feb)

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Another slow month, but several interesting items came in nonetheless. As always, items left over from the last UPDATE are starred for easy reference (\*\*\*).

CONTEST ANNOUNCEMENT: From Jim Young, California, comes the following announcement: "Because of past interests and present indications by many listeners, I am proposing to all DXers, SWLs and listeners worldwide, a large scale monitoring and contest of the 120, 90, 75, and 60 meter bands . . . from 0001 GMT February 11 to 2359 GMT March 13, 1978. I would like to see many listeners take part in this event, especially in hopes of making it an annual affair. Participation may be as a contestant (who pays a small entry fee and competes for one of several prizes) or as a monitor (who does not pay an entry fee or become eligible for a prize)."

I urge all of you to participate in what promises to be an exciting event. Among the advantages: Jim plans to compile the results in a form usable as a quick reference guide to the tropical bands. If we all participate this compilation will be a valuable reference tool. Additionally, the length of the contest is such that you can participate actively even if you can't make it to the rig every night.

*All requests for further details or entry forms go directly to Jim. His address:*

Mr. James W. Young  
Post Office Box 576  
Wrightwood, California 92397  
USA

ASIATIC RSFSR Vladivostok, 4040, noted in RS on 13 December w/ classical mx at 1220 and Moscow 2 IS 1229. Fair to poor level. (Terry Krueger, FLA) \*\*\* Welcome aboard, OM. tba

BRAZIL R. Inconfidencia, 6000, in PT at 0130-0145 w/ ads, TC, guitar bridge and ID. Good level and surprisingly little QRM. (tba) +++ R. Nac. Brasilia, 11780, in PT at 2138 w/ live futebol match. (tba)

CHAD Ndjamana, 4904.5, 0430-0445 w/ balafon IS, s/on, FR ID and into regular px. This outlet is often obliterated by UTEs on 4905, but even when channel is clear, level is highly variable. Best signal ever noted on 12 December, during geomagnetic storm. (tba)

CLANDESTINE Voice of the Communist Party of Turkey, 6200, in Turkish at 0800 w/ talks by M and a short selection of Turkish mx. Last bars of the "Internationale" to 0840\*. QTH is Rumania. (Pitt McNeil, DC, in TDXN 78). +++ BBCMS reports two apparently related clandestines, Voice of Arab Syria and Voice of the One Lebanon, using the following schedule: VoArab Syria on 9510 and 6060 from 0500-0600, 0800-0900, and 1800-1900. Vo the One Lebanon is also using these freqs at unspecified times. (BBCMS)

COLOMBIA R. Super de Cali, 6130, w/ typical latin format and SP IDs at 0449. (tba) +++ R. Nacional, 15335-, in SP at 0113. Light mx w/ DJ interrupting frequently until 0130 ID w/ clock chimes. (tba)

COOK ISLANDS R. Raratonga, 5045, noted as early as 0447 w/ light pop mx, some South Seas pieces. EG announcements. Usually unreadable during Togo carrier and px from 0510-0630. Cook has possible Maori local nx by M and W 0635-0645. Mx program hosted by M 0700-0730; similar mx but W annor to 0800. Then RA nx relay and other EG material to s/off ID w/ annmts and sung (???) anthem. S/off is 0831. Not yet able to dissect ID text exactly, but hope to soon. (Jim Young, CAL, in TDXN 78).

CUBA CMKV San German, 4800 harmonic (8x600) heard strongly after 2030 on 14 December in SP w/ R. Rebelde, Cadena Nacional IDs. (Krueger, FLA) +++ \*\*\* RHC clear on spurs at plus or minus 24 kHz from nominal 17885 channel at 2130. Freqs are 17861 and 17909. (Glenn Hauser, on the road in OKLA) \*\*\* RHC is a perennial offender in the spurious emission sweepstakes. This is but the latest example. tba

\*\*\* ECUADOR R. Nac Progreso, 5060, in SP at 1120, w/ typical Ecuadorian mx, and two IDs, one as R. Progreso and the other as R. Nac Progreso. (Jack Jones, MISS)

- EGYPT Cairo on 6030 *NF* in SP from 0045-0200, then EG to 0330\*. Good level, much better than 9475. (Clayton Sherman, NY) \*\*\* With the sudden thaw in Egyptian-Israeli relations, Cairo and IBA schedules may change rapidly. When a special event pends (e.g. Prime Minister Begin's upcoming trip to Cairo) it may be a good idea to check freqs that were used by each stn during President Sadat's trip to Israel. tba
- ETHIOPIA BBCMS reports that broadcasting services in Ethiopia were reorganized during the first week in December. The domestic service, the Voice of Revolutionary Ethiopia, now appears on 7165, 6185 and several MW freqs. The Foreign Service, known as Radio Voice of Revolutionary Ethiopia, has been observed on 9610, but a 41 m channel has not yet been found. The BBCMS report did not give a time schedule. (BBCMS)
- GERMANY WEST RFE/RL, 6105, in apparent Czech/Slovak at 0425. Interesting only for the petrified dance mx played during the px; e.g., the slowest version of the Beer Barrel Polka I have ever heard. Sounded like a live program from a roller rink!! (tba) +++ DW, 6075, in AR at 0431, w/ chanting and ME orchestral mx. At first I thought this was Iraq moving down based on the heavy use of reed in the music and its speed, but a "Houna Voix de Allemagne" ID squelched that. Beware. (tba)
- GUATEMALA R. Mam, 4825, at 0228 w/ SP talks by M and W. ID at 0230 and into local Indian mx. (tba)
- HONDURAS R. San Ysidro, 4844, not noted since 5 December, but should be regular as Christmas approaches. (Neal Perdue, ALA) \*\*\* Neal's report of this (last issue) came on local 4 December, the first Sunday in Advent. May help explain their absence at other times. tba
- \*\*\*IRAQ Baghdad IS noted on 9635 at 2130. ID and into FR; apparent move from 9745. (Hauser, mobile in ARK)
- KOREA NORTH Pyongyang, 9976a, in EG at 0020. ID by W and into Marxist talks. Good level, but poorly modulated. Also noted at 2200 in apparent KR. (tba)
- LUXEMBOURG RL, 6090, in EG at 0150 w/ fast-talking, somewhat cockney DJ and lots of disco mx. Nauseating. (tba)
- NICARAGUA Rdf Nacional, heard on 5945 and then on 5920 w/ excellent signals, beautiful mx, and many IDs (Aaron Haywarren, U. Manitoba DX/SWL Club); noted from 2200-1200 after 10 December; good level, especially during evening. (Sherman, NY); also noted here on 5920 during evenings w/ very strong sigs, varied mx, and major nx px at 0345, always with mucho talk on El Presidente. *Not noted, and apparently not on during the evenings of 21-22 December, despite frequent checks.* (tba)
- NIGERIA NBC Benin City, 4932, TENTATIVELY noted at 0341 w/ outstanding signals on 12 December. Sub-Saharan chants to 0400 nx, devoted almost exclusively to situation in Southern Africa. Could not ID lang, but presume it is one of the Nigerian tribal dialects. Tentative ID at end of nx (0414). Have never heard this one as strong. (tba)
- \*\*\*PERU R. Atlantida, 4790, in SP at 0407 w/ EG "Happy Birthbay" chorus, ID and pop mx. +++R. El Sol, 5970, in SP at 1105 w/ TCs Peruvian mx, songs. +++ R. Panamericana, 5980, in SP at 1100; ID after at least 5 minutes of commercials. No KCEI. (all from Jones, MISS)
- \*\*\* Panamericana has a singing disco ID now; you can hear it --if you really want to-- on 5980 during their px of non-stop dico mx. tba
- SURINAM SRS, 4779.56m, in at 59+20 db w/ usual px at 0215. (Jim Young, CAL, using new digital freq measuring equipment).
- SWAZILAND TWR, 5055, in EG at 0428 w/ religious mx to ID at 0430. (tba)
- URUGUAY R. El Espectador, 11835, in SP w/ light mx, talks and ID 0048-0100. (tba)
- USA WTMA, Charelston, SC, 2500 h between 0138-0200 in EG w/ top 40 format and IDs over Dominican LV del Progreso harmonic and WWV. Fundamental 1250 also heard. (Krueger, FLA) +++ Harmonic hunters should look for KMBZ, 4900 (5x980) during local evenings. 5880, the sixth harmonic also comes in well here. Both should be audible over long distances at night. (tba) +++ WYFR, Okeechobee, in EG on 11780 and 9630 at 2000 w/ usual non-stop religion. (Haywarren, MAN)
- USSR EUROPEAN RM Kalinin, 4860, heard regularly between 0100-0200 under the Venezuelan [R. Maracaibo--tba] w/ IS and EG feed to Nam transmitters. Strongest yet on 14 December (Krueger, FLA) +++ \*\*RM, 5940, in EG at 2230 w/ start of px to Nam. Soap opera organ mx and into nx. (Jones, MISS)
- VENEZUELA R. Juventud, 4900, in SP at 0345 w/ mx from "In the Court of the Crimson King" by King Crimson [circa 1971]. Music ended during the "Epitath" cut from that album. ID calls, freqs, and NA followed. 0355\*. Interesting to hear this kind of progressive rock in the tropical bands. (tba)
- YEMEN R. Sanaa, 4853+, in apparent AR at 0345 on 20 December. Long selections of peninsular chanting (relatively slow speed, heavy on strings, voices and percussion, but light on the reeds) to 0358 ID. More chanting to 0400 then into AR nx by husky voiced W (or high-pitched M). Some fading and much line noise made copy difficult. (tba)

Best wishes to all for a happy 1978, and of course, the best DX to you in the new year. Sure hope Santa brought you that new rx or exotic QSL you wanted!!!

# log report section



• **Ed. Sec-A: Dan Robinson** 1601 - 4900

HAPPY NEW YEAR---JANUARY 1978

5004 Fulton St., N.W.  
Washington, D.C. 20016

- 3345 MOLUCCAS RRI Ternate: From 1215 w/music, network news 1300. Only Indonesian noted in 90 m.b. (Field 11/11) McNeil has QSL Ternate...
- 4807 SAO TOME E PRINCIPE R. Nacional: From 2207 in PT w/mx, mx, African pops, ballads, U.S. rock & roll, 4 IDs and NA at s/off. At 2230 ancr and a power increase and seemed to mention an increase from 10KW to 50KW as of 11/25. I hrd them on 11/23 barely audible--this reception was fantastic!(Godfrey 11/25)
- 4840 INDIA AIR Bombay: At 1405 w/Hindi mx(beautiful) w/brief smts by M after each selection. 1425 long tlk by M, positive ID noted 1435 by M and cont'd with more mx (Hywarren 11/22) Nice catch Aaron--on the SONY!!
- 4845 COLOMBIA R Bucaramanga: Noted 12/22 apparently reactivated briefly--pgm of mx, ads, and IDs as "Radio Bucaramanga Internacional...." At first, could have been mistaken for R San Isidro, but pgm was different as was freq (Robinson/McNeil)

- 2200 NICARAGUA La Lider: 0143-0201 w/group singing and M ancr to 0159 when M in ID--Autak QF-1 handled noise level (Earhart 12/4) Music pgm with s/off 0400, strong signals (Field 12/4)
- 2360 GUATEMALA R Maya de Barillas: 1100 in SP w/mx pgm, M DJ (Prath 11/26)
- 3195v IRAQ R. Baghdad: From 1702 w/AR style mx, few smts by M. Is a regular here(lang in use was Farsi) (Wootten reporting fr Ismir, Turkey 11/7)
- 3200 CHINA PLA Fukien Front Station: In CH 1300-1305 w/ID "Fujin.....kwangpe tien tai" followed by tlks (Sapanikos 11/8)
- 3200 UKID: Radio Moscow pgm 0650 in EG "What is Communism?" (Wallack-Japan 11/23) This was rptd last month--can anyone confirm?--DE
- 3205 BRASIL R. Riberao Preto: From 2345 w/mx pgm to past 0040, P (Field 11/12)
- 3211 NOVA BRUNSWICK RM: Here ex 3216 and strong at 0302 w/PT mx by W //4865.5 (McNeil 12/12)
- 3225 VENEZUELA R Occidente: 2330 in SP, tlks by M, LA mx (Fedor 11/18) 0050 SP, US and YV mx pgm, ID 0100 (Bishep 11/15) 0140 in mx pgm (Field 11/23)
- 3227 LIBERIA ELWA: 0650 in lang--presumed M w/tlks but didn't wait for ID(Bishep)
- 3235 TAIWAN ECC: 1350-1400 in CH, MAW in tlks, 1359 with march music, horns at 1400, E (Sarrasin 11/20)
- 3240 SWAZILAND TNR: 0325 in vernacular tlks, IS, ID and freqs and hymn afterward (Bryan 11/18) 0328 MAW in tlks, religious songs, lang (Breckwell)
- 3243 IRAQ R Baghdad: 1706 in Kurdish w/usual Kurdish tlks and mx (Wooten-Turkey)
- 3250 SOUTH AFRICA Springbok Radio: 0328-0338 EG/AX, ID, Boogie Woogie beat mx, vocals (Poppin 11/27)
- 3255 VENEZUELA LV del Tigre: 0125 SP, LA mx, ID by man (Fedor 11/18) 0214-0225 SP, mx and tlk. High noise level somewhat alleviated with QF-1(Earhart) 0341-0414\* SP, ID and enthusiastic tlks, 0410 singing ID, YV NA 0412(Poppin)
- 3270 CHINA R Peking: 1504-1531 EG, ID and commentary re Iran diplomatic relations and Chinese Liberation Army (Poppin 11/27)
- 3275 VENEZUELA R Mara: 0035 SP, brief tlk by M, LA mx (Fedor 11/18) 0200 ID followed by mx pgm w/applause after each selection(Field 11/12) Numbers stn noted here 0404-0410 in SP, W w/groups of numbers (Sarrasin 11/26)
- 3285 BELIZE RB: 0458-0505\* EG, rock mx pgm, ID, s/off 0500--GRM, barely audible (Onken 10/29)
- 3300 GUATEMALA TGNA: 0039 classical mx, tlks by M, more mx (Fedor 11/18) 0305 W/SP religious sermon(Tennensald 11/27) 0315 EG religious pgms (Clift 12/1) 0330 EG "Radio Bible Class" Smts by W, ID 0330 (Greene 11/21) 0415 EG "Doctor Barzhouse" religious pgm (Swanson) 0425 EG rel. pgm(Hutchins 11/5) Presumed R Cultural to 0444 abrupt s/off (Poppin 11/27)

- 3316 SIERRA LEONE SLBC: 0600-0630 EG, W w/TC, ID, EL mx, religious pgm at fair strength but in the clear (Sarrazin 11/13) 0620 EG w/local folk mx, Mancr, nx by W ancr, ID, P (Godfrey 11/17)
- 3320 SOUTH AFRICA Radio 5: 0255 in EG w/rock mx, Electric Light Orchestra and other M DJ w/IDs, TCs (Godfrey 11/17) 0318 EG, ID, pop mx, singing ID 0326--fades by 0400 (Poppin 11/27) 0330-0405 EG, pop mx pgm w/DJ, ads, ID by chorus singing "Radio 5" Heavy QRN (Onken 11/23)
- 3322 NORTH SOLOMONS R Bougainville: 1110 in Pidgin, C & W mx, M ancr (Valko 11/10) 1239-1244 group singing of local mx which sounded almost like old blue grass ballads, ID "You are listening. . . R Bougainville" (Sapoznikow 11/8) 1245 in Pidgin, C & W vocals, G (Lineback 12/3) 1305 w/M&W in tlks, E(Sarrazin 11/20)
- 3325 ECUADOR Ondas Quevedas: 0245 SP, straight W in tlks w/nice enunciation but heavy UTE blasts (Sarrazin 11/8)
- 3330T PAKISTAN PBC Rawalpindi: 1712 in long tlks on UNID subjects, Pakistani style mx. Lang unknown, always here but never can hear ID (Wooten-Turkey 11/7) Thanks for reporting Charlie--this was rptd years ago as Peshawar but is listed in TBS for this time as Rawalpindi--DR
- 3335 FATUA NEW GUINEA R East Sepik: 1250 in Pidgin, pop instrumentals, anmts by W, F (Lineback 12/3)
- 3340 ECUADOR R Tropical: 0040 SP, tlks by M, mentions of Ecuador and "Tropical" w/Andean mx, TC and quick ID; signal faded a lot with much QRM (Fedor) 0300 W in tlks, probably mx(Field 12/4) 0320 w/mx until 0400 when gone abruptly, P(Field)
- 3340 CHINA UNID: All lang tlk, East is Red at s/off 0355 with no ID--rptd as Harbin at 1254 (Brookwell)
- 3355 INDIA AIR Kurseong: Excellent with mx and Hindi type anmts under RRI Sumenep. Delhi, 3365 also excellent and others noted same day were 3268-Kohima, 3315-Bhoj 3223-Simla, 3255-Delhi (Willis-AUS 11/22)
- 3360 GUATEMALA LV de Nahuala: SP 1122-1135, marimba mx w/occasional brass accompaniment, ID 1130 (Earhart 11/25) 0358-0403\* Marimba mx, s/off with ID and NA (Sapoznikow 11/24) 0415 w/pop mx, ID and freqs at 0428, on past 0437(Bishop 11/2)
- 3366 GHANA GEC: 2150 EG, U.S. pops, ID by M 2200 and into mx. Also 2235 w/hymns, mx, NA at 2306\* (Hutchins 11/6)
- 3380 MALAWI MBC: 2125 EG and lang, contemporary African pop mx w/anmts by M, occ. mentions of Blantyre (Bishop 11/28)
- 3385 VENEZUELA R Barcelona: 0130 in SP, ads, tlks and ID (Tannenwald 11/25)
- 3385 FR GUYANA FR3 Cayenne: 0925-0940 in FR, beautiful steel guitar mx, M w/def ID and into mx, Fair w/no QRN but HET (Sarrazin 11/24)
- 3385 PAPUA NEW GUINEA R East New Britain: 1220-1300\* Pidgin, EL vocals, local mx, s/off anmt w/ID, frequency and NA (Lineback, Sarrazin, Sapoznikow)
- 3385 SARAWAK RM Miri: 1442-1459\* in lang, ID 1458 "Inilah Radio Malaysia, Miri..." Mx before s/off (Poppin 11/24, 27)
- 3390 ECUADOR R Zaracay: 1045 SP, Andes type mx (Prath 11/26) 0315 w/ID, mx, local QRN (Hutchins 11/7)
- 3390T PAKISTAN PBC Karachi: 1720 w/Indian style mx, not heard //4735 as that freq covered by RTTY (Wooten-Turkey 11/7)
- 3395 VENEZUELA R Universidad: 0120 SP, EL mx, M w/tlk, ID (Thunberg 11/11)
- 3396 RHODESIA RBC: 0400 with full ID, TC, lcl ads by M in EG, nx 0401, CW QRM and QRN (Hywarren 11/26)
- 3396 NIGERIA NBC-Kaduna: 2023 w/M reading nx, ID 2027, 2 more IDs, mx...best ever heard at this time (Fedor 11/18)
- 3425 NEPAL Radio Nepal: Hrd in Nepalese at 0050 w/typical mx and tlk by M--unusual here in evening (DiLeo 11/26) 0101-0145 w/chants, drum/flute mx, M ancr, ID 0120. Great at first, then downhill--a real suprise (Krueger 12/1) 1300 w/some snatches of audio(Lineback 12/3) 1305 sitar mx, anmts every 10 minutes and suprisingly good signals--never thought I would hear this one(Sapoznikow 11/7) 1430-1520\* EG pgm after ID, IS on trumpet/horn--commentary on "His Majesty's development forces, food/agriculture ministries, education...Trumpet blare was repeated before s/off (Poppin 11/25)
- 3535 CHINA PLA-Fukien Front: 1045 in CH tlks by W (Fedor 11/17)
- 3545H CUBA: 0930 SP, s/off by W at 0930 (Prath 11/27) John, what you most likely have here is the harmonic of 790 khz--sure it signed off at 0930?--DR
- 3599 UNID: M & W in tlks, light mx, then briefly, man said "This is....." and faded needs more checking (Fedor 11/18)
- 3810 ECUADOR HD2IOA: Senal Horario with usual pips/SP anmts(Fedor 11/17)
- 3945 NEW HEBRIDES Radio Vila: NHBS hrd 0647 w/Pidgin and FR tlks by W. 0700 two M in FR, lotsa ARO QRM (Godfrey 11/29) 0731-0750 Boulder said a geomagnetic stor in full progress, I agree--M in Pidgin to 0742, this DJ then talked with another in FR apparently to fill time. At 0745, W w/"Vila" and FR nx, f/o 0750 but was generally fair w/only sporadic ARO QRM (Sarrazin 11/25)

- 3953 IRAQ Radio Baghdad: Big new xstr clearly heard in AR, but not //3243, or to 11905/9653 (all excellent) at 1415 w/AR ID (Willis 11/23)
- 3970 GT BRITAIN BBC: 0729 EG, tlk on foreign correspondence, G (Sarrasin 11/25)
- 3985 SWITZERLAND SBC: 0625-0705 FR/EG, Swiss folk mx, rx in FR 0630, Dateline Wed. at 0700 in EG (Godfrey 11/23) 0725 EG, M in tlk, lcl mx (Sarrasin 11/25)
- 3985T IRIAN JAYA RRI Biak: 1500+ IN W with mx, Indonesian mx, QRM fm AROs--hrd no ID (Godfrey 11/29) Mark--listed to 1400\* on variable 3982-7
- 3995 ASIATIC RSFSR Nikolaevsk-na-Amure: 1212-1235 in RS, semi-classical mx, M in tlk, M2 IS 1229, G (Krueger 12/1)
- 3995 W. GERMANY DW: 2345 in GM mx and tlk (Prath 11/30)
- 4021 PAKISTAN RP: 1438 w/mx pgm, well heard. Urdu arnats at 1450, ID at 1500 (Willis 11/24)
- 4030 ASIATIC SSR Anadyr: 0633 RS, with RS folk song //4050 this time (Poppin 11/27) George says this to be Mayak pgm...
- 4040 ASIATIC SSR Vladivostok: 0815-0825 RS, classical and pop mx, W with arnats, E (Sarrasin 11/25) 0635-0707 RS, Moscow TC 0935, "Folk Songs of Our People" per arnat. 0700 Mayak bulletin, sports, wx -- Listed Yerevan this hour (Poppin 11/27)
- 4050 USSR UNID: 0612-0630 RS, with audio distorted as if too close to mike, discussion and commentary "Progressive Democratic Powers" Moscow TC 0930, nice RS folk songs (Poppin 11/27) George, this seems more likely Yuzhno-Sakhalinsk though Frunze listed as well--your time 0630 would be about 4:30PM there, no? Any linguistic/ID help on these would be appreciated--DR
- 4085T AFGHANISTAN RA: Hrd here, with tlks and mx, clear but not strong. QRM from Indonesia and Mongolia. 1430 best time (Willis-AUS 11/19)
- 4115 N. KOREA Voice of Rev Reunification: 1415 t/in with M in tlks, march mx, all in RR. S/off 1430 after chimes (Hywarren 11/28)
- 4485 ASIATIC SSR Petropavlovsk-Kamchatsky: 1405 in RS with classical mx, brief W with arnats. 1430 W w/ID, into mx. Excellent signals!! (Hywarren 11/17) 0600-0635 RS w/"Govorit Petropavlovsk-Kamchatski..." TC for 18 hours, giving pgm and sked, second TC 1802, into "Internationale" on horns, M in commentary (Poppin 11/24)
- 4525 B. GERMANY DIZ Nauen: This time str hrd 2220-2225 at good strength (Krueger)
- 4635 TADZHIK SSR Dushanbe: 2305 t/in with ID, into relay of Moscow I pgm--IS, ID, then mx in RS. Fair with QRM (Hywarren 11/25)
- 4680 ECUADOR R Nacional Espejo: 0500 in SP with many IDs, short selections of Ecuadorian mx, M in tlk (Fedor 11/19)
- 4697v BOLIVIA Rzdio Riberalta: 0320-0341 SP, LA ballads, a few of lcl flavor with no arnats. Weak but clear (Krueger 12/2)
- 4698v JAVA RKIP Surabaya: 1415-1500 IN, folk mx, M in tlks, mx on 1/2 hour--sometimes hrd on 4700 (Godfrey 12/4)
- 4719 SULAWESI RRI-Ujung Pandang: 1045 IN, light island mx, short tlks by W between selections of mx (Fedor 11/18) 1140 IN tok and mx, fair signal strength but it didn't matter much as there was a super-powerful UTE right on the freq--what a shame! (Gavaras 11/28)
- 4736 PAKISTAN PEC Rawalpindi: 1744 w/Pakistani mx. Could not hear //3390 due to high static on 90 meters this time (Wooten 11/7) Also in evenings, East coast-DR
- 4738 BOLIVIA R Abaros: 0140 w/mx, and earlier at 2330, P (Field 11/21)
- 4750 CAMEROON Radio Bertouas: Embassy of Cameroon in Washington confirms 2 new strn on air--Bafoussam and Bertouas--only Bertouas on SW(DR) Hrd s/off 2030, not audible 2000 t/in (Field 11/19) 2045 w/some mx (Wooten-Turkey 11/5) 0523 w/African pop mx, FR tlks by M (Fedor 11/19) As far as is known, Bertouas now here rather than Zaire, but this bears observation--DR
- 4760 VENEZUELA R Frontera: Noted back here around 11/22 between 0000-0200 w/mx, IDs and arnats (McNeil/Robinson)
- 4765 CONGO RTVC: FR at 1945 with tlks by M, pop mx. //15190 better (Fedor 11/18) 2124 and much mention of Congo--RTTY QRM usually minimal here (Wooten-Turkey) 0415 with cock crow and drums, M in tlk, mentions of "America" and folk mx (Godfrey 11/24)
- 4770 LIBERIA ELWA: 2128 with religious mx. . . (Wooten-Turkey 11/5) 2210-2230 EG, VOA mx, rel mx, ID (Godfrey 12/1)
- 4770 VENEZUELA R Bolivar: 1105 SP, LA mx and ID (Tannenwald 11/26) 0025 peppy LA mx, ads and IDs by M, G (Hywarren 12/1) 0232 (Earhart 12/4)
- 4775 AFGHANISTAN RA: \*1400, EG ID by M, TC and freq, faded by 1405 (Wallace-Japan) 1429 s/off with EG pgm (Wooten-Turkey 11/5) Very strong 0245 with subcontinental mx, tables and sitar, chants, M&W in tlk... Also 0323 w/lcl mx to 0330 when W in tlk and c/off 0331\* Still F-G at s/off (McNeil 12/19)
- 4773 UNID: 1310-1320 in Asian language, not Chinese, tlks by W, vocals by female chorus. Peking, Vietnam, Indonesia all listed (Lineback 12/3) Out of order...DR
- 4780 KARELO-FINLISH SSR Petrozavodsk: 0535-0602 RS, at ear-shattering lvl with tlk, mx, time pips 0600 and W in apparent rx (Krueger 12/1)

- 4780 HONDURAS Radio Juticalpa: 1115 in SF with mx, ads, anmts (Tannerwald 11/26)  
1141 with ID, TC, Ranchera music and commercials, fading fast (Jones 12/2)
- 4780 VENEZUELA LV de Carabobo: 1110 with LA ballads (Jones 12/4) 2350 SP, ads, pop  
mx, ID and TC 0007. Wiped out by SRS at 0008 (Bishop 11/28) 0027 in SP with  
M ancr. TCs and EL mx, F (Hywarren 12/1) 0347-0359\* M vocalist, nice flute  
melody. ID 0356, "Republica Venezuela" NA by chorus and off (Poppin 11/29)
- 4780a SURINAM SRS: 0030-0100 in Dutch, Motown tunes w/much DJ tlk, G (Sarrazin 11/13)  
0927-1038 with Dutch tlks, mx, 5 pips then ID at 1035, Christmas mx. Weat at  
0950 but stronger 1030 (Baysa 12/2) Last month in LR-A of 4850 I misquoted the  
freq as 4799 1/2...should have been 4789 1/2--DR
- 4785 DOM REP Radio Norte: 0100-0305 on 12/4 with mx pgm, ads (Field, Earhart)
- 4785 TANZANIA RT: 0412-0432 in Swahili, chants, drum/flute instrumentals, M at  
unreal lvl!!! (Kreuger 12/1)
- 4790 SWAZILAND TWR: 1643 with sermon in vernacular lang (Wooten-Turkey 11/4)
- 4790 PERU R Atlantida: 0407-0930 LA pops and some lcl mx, IDs by M ancres, TCs,  
strong lvl (Jones 11/20, Fedor 11/19, Poppin 11/27, Tannerwald 11/23)
- 4800 VENEZUELA R Lara: 1100 in SP with YV mx, ads and tlks, ID (Tannerwald 11/25)  
0120 LA mx, TC and ID and the usual (Wooten-Turkey 11/7)
- 4800 CHINA RP: 2229 CC, 2230 IS, ID, NA into usual R Peking M&W format in CH.  
Signal was good but soon faded after about 7 minutes--have not seen this one  
rptd this time for at least 2 years (Hywarren 11/26)
- 4804 KENYA VOK: Nairobi hrd in EG at 1943 w/mx and tlk by W. At 2000 ID hrd and  
rx read by M (DiLeo 11/26) 2045-2107 EG, mx and rx followed by religious tlk  
and hymn; ID at 2107 "This is the Voice of Kenya" (Dunn 11/26)
- 4805 BRAZIL Rdif do Amazonas: 0029 M in tlk in PT, mentions of "Amazonas (of) Mana  
(Hywarren 12/1) 0155-0201 PT, ID, light mx, QRM de R Lara (Valko 11/18)
- 4806.5 SAO TOME E PRINCIPE R Nacional: 2133 with impassioned tlk by M in PT (Wooten)  
2220-2302\* PT, interesting lcl and rock-type vocals. Best ever here, to choral  
anthem at 2300 (Cress 11/25) 2246 in PT tlk with fast flute mx, 2259 ID by M,  
NA 2300 and c/off 2302, P with Severe QRM (Gavaras 11/29) 0540--one of the last  
low power transmitters, per call from Mark Godfrey this is now 50KW as of 11/24  
or 25; lcl drum mx, F (Sarrazin 11/24)
- 4810T VENEZUELA R Popular: 0112 with tlks by M, no positive ID but did hear Venezuela  
mentioned (Wooten-Turkey 11/7)
- 4810 SOUTH AFRICA Springbok Radio: 2120-2159\* EG/AK, Ads for Benson and Hedges,"  
pop mx, listener requests, bible quotation (Hermann, Hutchins) 0300-0431 EG,  
ads, ID, mx pgm (Pyatt, Baysa, Poppin, Onken, Ihnat)
- 4815 PERU R Samaren: 0324 SP, ID, TC, EL mx--U.S. and LA (Jones 12/7)
- 4815 COLOMBIA R Guatapurí: 1045 SP, mx and commercials (Prath 11/20) 0030 w/nx, ads  
and ID (Tannerwald 11/17) 0115 (Wooten-Turkey) 0317 mx and IDs (Earhart 12/4)
- 4815 UPPER VOLTA Ouagadougou: 2359 s/off with ID and NA, FR (Wooten-Turkey)  
0631-0700 FR with light African pieces, some anmts, E (Sarrazin 11/11) 0637 w/tl  
by M, drums in background (Godfrey 11/10)
- 4820 HONDURAS HRVC: 1135 SP, with religious sermon (Tannerwald 11/27) 0032 nice SP  
ballads, ID by M 0033. This stn isn't so bad when it has non-religious pgms  
(Hywarren 12/1) 0315-0330 EG rel px, ID 0328 (Baysa)
- 4820 ANGOLA R Nacional: 0432 after HRVC\*, PT DJ with tlks, pop mx, very strong and  
773375 (McNeil)
- 4830 THAILAND R Thailand: 1500 with ID and into mx, all in Thai (Wooten 11/7)
- 4830 GABON RTVG: 1908 with mx and ID by M, FR (Wooten-Turkey 11/4)
- 4832 COSTA RICA R Reloj: 2340 LA mx, however, RTTY and weak Chinese-speaking stn  
prevented definite ID (Wooten-Turkey 11/3) 0036 in SP EL mx, ads, usual ID/TCs,  
This stn was mixing with Luz y Vida on 4830 and an UNID with beautiful ballad  
mx, M in SP anmts--to weak to ID. If only someone would move TIHBI (Hywarren 12/1)  
0150-0945 (Fedor, Burke, Poppin, Baysa, Prath)
- 4835 PAKISTAN Islamabad: 1540 EL rock mx, into M in chants. Weak and fluttery but  
in the clear (Sarrazin 11/19)
- 4835 GUATEMALA R Resulutlan: 1157 in Indian language, marimba music, many IDs (Jones)
- 4835 SOUTH AFRICA SAB: 2105 EG, rx to 2110, wx to 2115, disco mx, 2206\* (Hutchins)  
0206-0411 EG, mx and election results, TC "20 minutes past 4 on the all-night s  
QRM: de R Reloj 4832 (Hywarren 11/10, Poppin, Baysa, Valko)
- 4837a BRAZIL Rdif Roraima: From 0110 with sports; QRM fm Radio Reloj and R Mam (Field)
- 4840 CHINA Haerbin: 2142 with W in tlk in CH (Wooten-Turkey) Listed TBS...1127 with  
oriental mx, tlks by W (Fedor 11/19) This Fuzhou per sked--DR
- 4840 VENEZUELA R Vlaera: 0135 SP, pop tunes and ads (George 11/25) 0356 end of  
sports coverage (boxing?), full ID and freqs by M, then rapid tlks by M, F  
(Hywarren)
- 4845 BOTSWANA RB: 0330 CC, 0335 IS with cowbells and farmyard sounds. 0358 choral  
NA, \*0400 ID by W in EG and Setswana, into religious pgm with choral vocals, org  
mx, F (Hywarren 11/27)

- 4845 MAURITANIA Nouakchott: 2223 AR chants, W with AR armts (Hywarren 11/11) 0605 with Koran recitations (Earhart) 0700-0740 AR/FR straight tk to 0710, into FR and back AR. //7245 (Sarrazin 11/11)
- 4850 CHINA CPBS: Strong 2305 with CH mx by M&W to 2330 fade out (McNeil 12/14)
- 4850 VENEZUELA R Capital: 2330 SP, ads, good IDs and ads for Caracas region--no sign of HILR this evening--what is Radio Clarin's problem? (Hywarren 12/1) 0045 w/LA mx, ads, armts (Tannenwald 11/25) 0130 SP, LA pops, ad string, many IDs (Bishop 11/15) 0300-0310 SP, vocals and DJ, ads, ID, F (Lineback 11/20)
- 4850 ECUADOR Ondas del Zamora: Rptd here in Mid-December Update fm 0130-0320 by Ferdue. Could this be the one IDing as "Canal Juvenile..."--DR--UNID, 0450-0505 in SP with LA pops, break at 0500, mx and back to mx 0503--no ID hrd (Lineback 11/25) That sounds like a YV format to me, Jerry--DR
- 4850 CAMEROUN Yaoude: 2100-2235 in FR with vocals and lcl mx, tlks by M, many mentions of Yaoude, national IDs for "Radio Yaoude" and "Radio Cameroun a Yaoude" (Bishop, Godfrey, Lineback, Fedor, Wooten, Hywarren, Hermann) 0500-0510 in FR/EG, mx in FR with brief music breaks to 0508 when EG mx about Africa and Cameroun; cont'd in lcl mx (Sarrazin, Dunn, Lineback)
- 4852.5 N. YEMEN Sanaa: 0404-0412 AR, at great lvl, though no trace noted at 0300 check. M in calm political tk (Kreuger 12/1)
- 4855 BRAZIL R Clube do Para: 0355-0412 PT, cuts from new Stones L.P., G (Bishop) 0209 in PT with futebol coverage and mention of Radio Clube at 0210 (Hywarren)
- 4860 EUROPEAN SSR RM Kalinin: 0259-0304 EG, IS and into NAM svc noted weakly under IV (Kreuger 12/2) Could this be Chita, reactivated asks McNeil???--DR
- 4860T INDIA Radio Kashmir: 0230 with Indian style music, weakly heard with some tk also (Wooten-Turkey 11/3)
- 4865 BRAZIL R Soc Feira de Santana: 0108-0114 PT, Brazilian pops, M with ID
- 4865 MOZAMBIQUE RM: 1703 with musical program and definite mentions of Maputo, PT (Wooten-Turkey)
- 4870T SRI LANKA SLEC: From 1200 with subcontinental and light mx, chants by M past 1206, UTE QRM (McNeil 12/16)
- 4870 ECUADOR R Rio Amazonas: \*1123 in Indian language, NA, distinctive solo chanting by W; sometimes M, lasting to 1133 t/o (Jones 12/1) 0130 SP with ID mx and ads (Bryan 11/27) 0203 with religious pgm, NA 0230\* (Bishop) 0220 in SP with Children's songs, vocals (Hywarren 12/1)
- 4870 HENIN LVR: 2150 with long speech on communism and the Soviets by a man before a large audience, possibly some congress, all in FR (Wooten-Turkey) 2235 with ID and frags, rev fare, NA and off 2304 (Hermann) 0435 FR with tk and some mx, UTE problems (Sarrazin) 0510 speeches, patriotic songs (Lineback 11/26)
- 4875 COLOMBIA LV del Norte: 0350 in SP with usual Latin American format, ads, many IDs, TCs, LA mx, etc (Hywarren 11/13)
- 4880 VENEZUELA R Unverso: 1105 with LA mx and ads (Tannenwald 11/27) 2220 SP with nice mx, sharp QSB, ID 2226 (Hutchins 11/5) 0013 in SP with sports coverage, F (Hywarren 12/1) 0331-0357\* with ID and NA (Earhart 12/4) 0105 (Wooten-Turkey)
- 4880 SOUTH AFRICA SAB: 0428 in AK with chime, mention of Transvaal, 0434 prayer, tk about Vorster 0440 (Poppin 11/24)
- 4882 DOM REP R Comercial: 2340 with LA mx and excited tk. This one tight only. Not hrd before or since, but had a definite ID (Wooten-Izmir, Turkey)
- 4885 KENYA Voice of Kenya: Mombasa hrd in language with mx and tk by M from 2007. ID at 2030 mentioned both Mombasa and Nairobi. This stn evidently runs later than WRTH listing on Saturdays (DiLeo 11/26) For 10 KW, a nice catch--I have had trouble hearing even 4804 as of late --DR
- 4890 ECUADOR R Centinela del Sur: 0215 in SP, LA mx (Pyatt 11/28)
- 4890 PAPUA NEW GUINEA NBC: 0808-0840 EG, mx, commercials, ID 0840 (Baysa) 0907-0916 EG, mx and commentary, ID, 1218 EG, mx and TC (Greenes 11/18) 1355-1400\* after pop mx and s/off armts (Clift, 11/29)
- 4890 BANGLADESH Dacca: 0100 with definite ID and into mx about Bangladesh (Wooten)
- 4890 SENEGAL Dakar: 2201 with man in tk, short musical pause and station ID (Wooten-Turkey) 0630 AR/FR M with chants to 0630; M with mx fm 0630-0700 in FR; (Godfrey 11/17) 0645 M in long tk, bongos and ID 0658 (Sarrazin 11/25)
- 4892 ECUADOR R Centinela del Sur: 0446-0451 in SP, with ID as "Radio Musical"; orchestral music, vocals--digital readout on FRG-7 helped (Poppin 11/24)
- 4895 MOZAMBIQUE RM: 0500-0530 FR, with ID in EG/FR/ and into lcl mx pgm with DJ-- (Onken 11/23)
- 4900 VENEZUELA R Juventud: 0056 in EL mx, some rock--these LA stns I'm reporting may not be DX over there in U.S.A., but here it's like old home week!! (Wooten-Turkey) 0100 LA mx, ads, ID (Tannenwald 11/26)
- 4900 CHAD Ndjamena: 2112 with lcl mx, some short armts, but definite ID--a temporary move to 4900 as 4904.5 was silent (Wooten-Turkey)

Another Christmas DX season and the expected frequency shifts, reactivations, special programs. . . Next comes New Year's Eve! It is my hope that all contributors to IR-A will have a productive 1978, both in terms of DX/SWL and the more mundane aspects of everyday life as well--HI. With the sunspot levels expected to be rising, things should be looking up considerably.

SOME REQUESTS FROM YOURS TRULY: (1) For those reporters who may be new to FRENCH and IR-A, it would be extremely helpful for me to have current addresses available so that I may drop everyone a line. Many are not listed in the one and only NASWA Associates Directory...Perhaps in future reports, addresses could be included?

(2) Also very helpful, would be a limit to the width of report slips to, say, around 2cm. Realizing that everyone has different sizes, I only ask for some moderation--had one slip that was about as wide as the New Jersey Turnpike (or Ventura Freeway for you Californians).

73s until February.....DAN

HELPING HAND: A former NASWA member would like to sell a SONY CRF-150 13 band AM/FM/LW receiver. I have personally used this receiver and can vouch for its beautiful tone on SW, AM, and FM. Segmented coverage 1.6-4.5/4.7-5.3/5.8-6.4/7.0-7.6/9.5-10.1/11.6-12.2 15.0-15.6/17.5-18.1/21.4-22.0/25.5-26.1 Weight is 15 lb. This was the first really good SONY for shortwave and makes a beautiful backup portable. Contact Dan Robinson, 5004 Fulton St., N.W. Washington, D.C. 20016

HELPING HAND: For sale, mint DX160 and Mattis frequency display for combined price of only \$210. Available separately at \$120 for the display (cheaper than the kit) and \$90 for the receiver. Also for sale: National NC173 good back-up receiver \$50, contact Al Mayer P.O. Box 321, Park Forest, IL 60466.

DON'T YOU BELIEVE: That Al Mayer is or was a member of NU.

PUBLISHER'S Note: Log Report B didn't make it in time for inclusion in this month's FR

This ends my tenure as publisher and I enjoyed the job. I wish to thank everyone enfold for the support that they have given me, especially the editors and staff and those who have written for one reason or another.

HELPING HAND: For sale, FRG-7, with Gilfer filters. \$250 to anywhere in USA. Jim Davis 101 Idaho St. Travis AFB, CA 94535; (707) 437-3963 Between 2300-0700GMT.

HELPING HAND: For Sale R-390/URRmfd. by Motorola; SN604, in good mech. cond and Elect coil Includes top and bottom dust covers, tech manual, and new #TF4 ballast tube. \$450 plus shipping (about \$20), but will reduce if you pick up. Write or call Charles A. Taylor, 936 N. Temple Ave., Indianapolis, IN 46201, or 317-635-2164 (0000-0300GMT).

HELPING HAND: For sale. Drake SW-4A receiver with manual. \$100.00 plus shipping. Contact H.W. Louderback, 198B Woodland Drive MFL, Leesburg, FL 32748.

SCADS MEETING: Southern California Area DXers will meet Saturday, February 11, 1978 between 10:00 AM and 5:00 PM, at the Valley View School Auditorium 5361 Sisson Drive, Huntington Beach, CA. Advance registration appreciated For additional information, please write Donald E. Erickson, 6059 Essex St. Riverside, CA 92504, or call 714/687-5910 early evenings or weekends.

AREA GROUP BEING FORMED: An all band club is being formed for the Texas, Oklahoma, and Arkansas area. A newsletter is being considered. Membership fee will be in the area of \$5.00 per year. Interested persons should contact Allen Newton, 616-C Arcadia, #409, Hurst TX 76503.

FREQUENCY CALIBRATIONS ON HAMMARLUND HQ-180; Joseph L. Markiewicz, 38417 Charwood Drive, Sterling Heights, MI 48077 has developed a series of calibration charts for the HQ-180 using the BC-221AK frequency meter. The charts are typed on 8½" X 11" paper and are supplied with plastic covers suitable for three ring binders. The price is \$5.50 for the set of five charts. Additional information available for a SASE to the address given.

HELPING HAND: For sale. Allied SX-190 receiver with speaker. 12 crystals: 3.5 - 27.5 MHz and provision for two more. Excellent condition. Contact Scott McGurn, 20 Maiden Lane, Raleigh, NC 27607.

# log report section



Tom Gavaras 16920 17th Ave. N. Wayzata, MN 55391

Our Distribution Editor now has a new address: Greg Ravenhorst, c/o Sunset Bay Camp, Baby Lake, Hackensack, Minnesota 56452! All reports for the Log Report Sections should be sent to him. His deadline is the 12<sup>th</sup> of the month.

- 350 UNIDENTIFIED; 1113 Arabic(?) talk, mx (not oriental), more talk by Woman (Fedor 11/18)
- 380 MONGOLIA R. Ulan Bator; 1221-1250\* English news, commentary, "What Do you know about Mongolia?" contest. (Wallack 11/28).
- 400 CHINA PLA; 1109 Chinese talk by woman. No mx heard (Fedor 11/18). -I have KCBS listed here w/Korean program (Editor)-
- 425 VIETNAM VOV (Hanoi); 1100-1600 Vietnamese 2nd pgm//10225 (Willis 11/20).
- 450 VIETNAM VOV (Hanoi); 1515-1630\* Vietnamese tlk & mx //10060 (Willis, Godfrey).
- 494 CHINA R. Peking; 1400-1500 Russian pgm well heard. Jammed! (Willis 11/21).
- 500 CHINA Shanghai; Weakly Heard, but seems own pgm in Chinese. Never a good signal here! 1350 seems best when had Chinese pgm (Willis 11/21) -Mike, are you sure that this is from Shanghai? (Editor)-
- 537 CHINA R. Peking; 1400-1500 Cambodian pgm. Interference from Korea on 6540 (Willis).
- 550 LEBANON (CLANDESTINE) V. of Lebanon; Well heard from early Nov. I heard it, called Geoff Coiser, who quickly identified it. Arabic mx & French/Arabic announcements. Reckon it is around 15 KW, at least (Willis 11/16 & 12/2). -Mike, what time did you hear it? I have seen a report of this station heard till 2059\* in FR by Sizer (Editor)
- 560 USSR; 1430-1700 HS pgm in Russian. Genuine station, not SSB or used as jammer, at least when I heard it. Location must be somewhere east of Urals, as fades in quite late. Goodish level//6090 (Willis).
- 785 CHINA R. Peking; 1120 Chinese talk by man & woman w/brief music (Fedor).
- 937 CHINA R. Peking (Kunming); 1115 Chinese talk by woman, Oriental music, etc. (Fedor).
- 120a USSR; 1530+ Russian talk by man & woman//7200 & 7210. This same transmitter was heard one time only on 7040a 11/16. Any ideas as to txtr location? (Godfrey 11/22).
- 125 CHINA PLA; 1052 Chinese talks by a woman (Fedor 11/18).
- 165 ALBANIA R. Tirana; 0000 English nx (Prath). 0128 Portuguese talk (Leffler). 2050 English ID & talk by lady (Fedor 11/16). 2205 English nx & Albanian Folk mx (Yacono).
- 175 EGYPT R. Cairo; 0300-0330\* English mx, cmntry (C.Sherman). 2150 AR talk & mx (Fedor).
- 185a CLANDESTINE R. Abdalla; 2258-2311\* Spanish talk by man w/emphatic monologue on communist influence in Venezuela, Caribbean, etc. IDed once also as "R. Libertad de Cuba". Very strong sig here & believe this is just one of the countless exiles probably in Miami area. Also believe this is the same "R. Rebelde Cubana" I heard in March 1976 attacking Cuban movements in Angola (Krueger 12/4). -Great Catch! (editor)
- 195 PAKISTAN R. Pakistan; 2055 Urdu talk and music. ID//9465 (Fedor & Report w/no name).
- 205 MONACO TWR; 0630-0800 English ID & Religious pgms (Onken, Berezowski, Sapoznikow, Sarrazin)
- 05 SPAIN RTVE; 2100 Spanish ID by man, music, talk, etc. (Fedor).
- 10 INDONESIA RRI (Yogyakarta); 1600 English ID after Interval Signal//11790 (Godfrey).
- 15 BULGARIA R. Sofia; 2127 IS, English ID & Freq. Severe QRM (Welch 11/15).
- 15 GERMANY (WEST) RFE; 0410 Hungarian(?) talk w/Jazz music (Sarrazin 11/9).
- 30 MALAWI MBC; 1508 Hi-life mx w/announcements in various local dialects (Willis 11/21).
- 30 USSR R. Yerevan; 0311-0327 English talk, music, request pgm, etc. (Sapoznikow 12/1).
- 45 NIGERIA NBC (Ilorin); 0440 music into News. Poor reception (Field 11/20).
- 50 USSR R. Kiev; 0030-0100 English ID, news, cmntry, etc. (Tomkewich, Hermann).
- 50 USSR R. Vilnius; \*0100 Lithuanian ID & nx (Hermann) \*2300 EG ID (Hermann, Welch).
- 50 USSR Home Service; \*0130 Russian talk & ID (Hermann). 2220 Russian tlk & mx (Hermann).
- 55 SPAIN RTVE; \*2030 English w/IS, music, ID, News. Broadcast to Europe//9505 (Fedor).
- 65 PHILIPPINES VOA (Iloilo); 1200 English Identification & News. Very Poor (Burke 12/7).
- 65 USSR R. Moscow; 0325 English w/Moscow review, cmntry, etc. (McCants 11/30).
- 70 NEW CALEDONIA R. Noumea; 0608 French talk w/orchestral mx & ID (Gavaras 12/1).
- 75 TURKEY VOT; 2328+ English talk and Turkish music (Fedor 11/16, Prath 11/20).
- 75 USSR R. Peace & Progress; 0200-0229 Spanish for Chile w/ID, news, etc. (Hywarren).
- 90 YEMEN (SOUTH) DYBS; 0305 Arabic news, ID & local music (Sapoznikow 11/22).
- 95 LIBERIA VOA; 0358 English talk on Sports, Safari, etc. (Bryan 11/30).
- 00 ENGLAND VOA; 0300 English News with severe HAM interference (Raper 11/10).
- 05v USSR R. Moscow; 2315 English Mailbag pgm (Prath). 0120 English talk (Leffler).
- 10 HOLLAND R. Netherland; 0727 IS w/Dutch Identification. Poor signal (Godfrey 11/22).
- 10 SWITZERLAND ICRG; \*0605 SBC IS into English nx (Edelstein). 2206 EG pgm (Golkin).
- 10 USSR R. Moscow; 2330 English news about Communism (Prath 11/6).
- 15 BRUNEI RTV Brunei; 1200 English w/Gong, ID & News. No sign of Moscow (Fedor 11/18).

- 7225 RWANDA DW; 0430 English ID, nx, cmntry, rock mx (Sarrazin, Godfrey).
- 7245 ANGOLA R. Nacional; 0410+ Portugese tlk on Zimbabwe, balafon type mx (Godfrey, Sarrazin)
- 7260 USSR R. Moscow; 0619 English music from Moscow (Grenier 11/14).
- 7260 USSR R. Kiev; 0315 English program w/Kiev Panorama (Prath 11/18).
- 7260 USSR R. Rodina; 0020 Russian talk & music into MAYAK pgm at 0030 (Hermann 12/11).
- 7270 ASCENSION ISLAND BBC; 0527 English w/Network Africa (Grenier 11/21).
- 7270 SOUTH AFRICA RSA; 0407 English cmntry on Rhodesia, ID, sked, etc. (Bryan 11/30).
- 7275 NIGERIA VON; \*0555-0740+ EG pgm (Berezowski, MacKay, Bryan, Baysa, Golkin, Stroh, Godfrey,
- 7275 TUNISIA RTVT; 0430 Arabic pgm//15225. Strong signal (MacKay 11/11). & Burke)
- 7280 LIBERIA VOA; 0700 English talk about New England Church (Johnson 11/28).
- 7290 USSR MAYAK; 0828-0858\* Russian talk and music. HAM & SWBC interference (Hermann).
- 7293 PAKISTAN R. Pakistan; 1345 Bengali pgm//9663. Heard well here. (Willis 11/23).
- 7300 ALBANIA R. Tirana; 0112 Spanish talk with music (Leffler 11/28).
- 7320 USSR R. Tikhiv Okean; 0740-0759 Russian music, talk & ID (Hermann 12/11).
- 7345 CZECHOSLOVAKIA R. Prague; 0010 SP News (Prath). \*0100 EG Pgm (Pearson, Leffler, Fedor).
- 7360 USSR R. Moscow; 0108 Spanish tlk (Leffler). 2020 English Science tlk (Hascall).
- 7380 USSR R. Moscow; 0106 Portugese talk on Geneva Conference (Leffler 11/28).
- 7400v USSR R. Kiev; 0300 English ID, News, tlk about Neutron Bomb (Welch, Prath).
- 7400 USSR R. Moscow; 0105 Spanish news on Sadat (Leffler 11/28).
- 7400 USSR R. Vilnius; 2300 English news, mailbag, etc. (Earhart, Baum, Fedor).
- 7412 ISRAEL IBA; 0315 Hebrew w/Israeli versions of American pop vocals (Lineback). 0509 EG News (Grenier). 2015 EG ID & News (Hascall). 2235 EG Nx & ID. Excellent sig (Fedor)
- 7440 USSR R. Moscow; 2230 English Identification & News (Fedor 11/16).
- 7470 VietNAM VOV (Hanoi); 1520-1526\* Vietnamese tlk, s/off, National Anthem (Godfrey 11/22)
- 7500 AUSTRALIA VIK Time Station; 1958 Time pips w/ID at 2000 (Fedor 11/17).
- 7600 ECUADOR HD210A Time Station; 2350 Time pips w/Time in SP every minute (Fedor 11/18).
- 7770 CHINA R. Peking; 0833 Chinese tlk & band mx. Presumed Domestic 2nd pgm (Brookwell).
- 7815 UNIDENTIFIED; 2218 lang, oriental mx, man mentioned "cinko de Bolivia" 2225\* w/N.A.→
- 8195t CHINA PLA; 2120 Eastern mx, talk in lang, 4 pips at 2200, Eastern mx (Hutchins) (Fedor)
- 9022 IRAN VOA; 1924 IS, French ID (Edelstein) 2043 AR tlk & mx (Edelstein)-I have Persian
- 9030 CHINA R. Peking; 1310 Chinese talk by man (Fraser 11/20). //listed (Editor)
- 9064 CHINA R. Peking; 0822 Chinese talk by Man & Woman. Domestic 1st pgm (Brookwell 11/20)
- 9090 CANADA CFRB; After having received a report that CFRB was being heard in this freq. in Lynchburg, VA, I tried it too, and there it was. 1557 talk about Tropical plants, 1600 nx. Is 9th harmonic of 1010; who needs 6070? SINPO: 24322. CW QRM (Hauser 12/11)
- 9360 SPAIN RTVE; 2350-0340 Spanish ID, Nx, mx (Fraser, Valko, Leffler, Brookwell, McCants).
- 9390 CHINA R. Peking; 0629 English nx. 0629 off w/out ID or IS (Brookwell 11/18).
- 9419v KOREA (NORTH) KCBS; 1507 Russian pgm (Hauser). 0057 English talk (Leffler 11/28).
- 9435 ISRAEL IBA; 2020 EG DX pgm (Prath). \*2230 EG ID & News (Greenes, Prath).
- 9450 USSR R. Atlantica; 1350 Russian tlk & mx into R.S. Rodina at 1400 (Earhart 11/13).
- 9460 CHINA R. Peking; 0346 English pgm to WCNA w/ID, chorus, military band, etc. (Brookwell)
- 9465 PAKISTAN R. Pakistan; 1840 Unid talk w/Asian mx (Fedor). \*1915 IS, Urdu(?) ID & local mx (MacKay). 1935 French ID & Asian mx (Hywarren). 2105 Urdu w/Ind. Sub. Cont. mx (Godfrey)
- 9475 EGYPT R. Cairo; 0059 Arabic w/mx (Leffler). \*0100 EG Program Review (Raper 11/20) -Early s/on because of Sadat's visit to Israel? (Editor) - 0310 EG w/Egyptian rock mx (Baum). 1803 Arabic w/live coverage of Sadat's visit to Israel. National Anthems of both countries played, etc (Sapoznikow 11/19). 2012 Arabic talk & music (Fedor).
- 9480v ALBANIA R. Tirana; 1845 English talk about struggle in a tribe, ID (Fedor 11/16)
- 9490 USSR R. Moscow; 0100 IS, Spanish Identification & News (Leffler 11/28).
- 9500 LIBYA PRB; 2249-0030 Arabic talk w/Anti-Sadat slogans (Leffler 11/27, Fraser 11/20).
- 9505 AUSTRALIA R. Australia; 2025 English talking, freqs and full ID (Fedor 11/15).
- 9505 PERU R. America; 1030 Spanish ID and Peruvian music. Bad Het (Jones 11/22).
- 9505 PORTUGAL (?) RFE; \*0359 Celeste IS, Bulgarian ID by Female. Strong (MacKay 11/13).
- 9510 FRANCE RFI; \*0400 IS, Time Pips, French Program. Strong (MacKay 11/13).
- 9515 TURKEY VOT; \*2200-0030 EG ID, News, etc. (Raper, Stanziale, Burke, Pearson, Tomkewich, Prath, Leffler, Fedor, Greenes, Edelstein, Fraser, Miller) 0620 Turkish tlk & mx (Johnson).
- 9515 URUGUAY SODRE; 0140 SP tlk & mx till 0300 EG Nx (Alexander, Valko, Clift, Gavaras).
- 9525 CUBA RHC; 0030 Spanish news and talking (Prath 11/9).
- 9525 INDIA AIR; 1850-2230\* EG ID, News & mx (Fedor, Burke, Hynes, Hermann, C. Hoffman).
- 9530v GREECE VOG; 1915-1930\* English news & Greek music (MacKay 11/19, Hynes 12/3).
- 9530 SPAIN RTVE; 2252 Interval Signal into Spanish program (Leffler 11/27).
- 9535 CANADA RCI; 0007 Portugese nx (Leffler). \*0100 EG Nx, etc (Innat, Raper, Welch).
- 9535 SWITZERLAND SBC; 1340 English w/Dateline Friday (Yacono 11/25).
- 9540 CZECHOSLOVAKIA R. Prague; 0050 SP talk (Prath). 0135-0155\* EG cmntry (Fraser).
- 9540 USSR R. Tashkent; \*1200 English news, cmntry, IX Pgm (Prath 11/27, Gionet 11/13).
- 9560 ECUADOR HCJB; 0100-0700 EG Relig Pgm, etc. (Tomkewich, Plotnick, Hynes, Fraser, McCants,
- 9560 JORDAN R. Jordan; 1705 English news by man (Gionet 11/14). //Calderwood & Greenes
- 9560 SWITZERLAND SBC; 1115 English DX Show w/good tlk on VHP-SSB-SW (Prath 11/26).
- 9566 CHILE V. of Free Chile; 0210 EG News (Miller). 2320 EG ID & Gitar mx (Yacono).
- 9570 QATAR QBS; 1335 Arabic talk, chants. Hrd almost daily before I goto school(hi) (Sarrazin)
- 9575 ITALY RAI; 0100 EG Nx & cmntry (Burke, Tomkewich). 2254 Italian talk (Leffler).

- 1580 AUSTRALIA R. Australia; 1200 English news, ID, cmntry (Prath, Greenes).  
 1585 HUNGARY R. Budapest; 0205 English cmntry, "Inside Hungary" feature (Fraser 11/11).  
 1585 JAPAN R. Japan; 1715 Japanese tlk (Brookwell). 2205 EG cmntry, 2215 Japanese (Utter).  
 1585 PORTUGAL IBRA; 0500 Religious program in unidentified language (Pyatt 12/5).  
 1585 SOMALIA R. Mogadishu; 1909+ Somali tlk, cmntry, mx, etc. (Onken, Fedor).  
 1585 SOUTH AFRICA RSA; 0411 EG Good Morning Africa (Swanson). \*2100 EG nr (Stanziale, Swanson). \*2230-2320\* EG ID, nx (Pearson, Greenes, Leffler, Swanson, Golkin, Vacono, Miller).  
 1590 NETHERLAND ANTILES R. Nederland; \*0230 EG ID, nx, etc. (Baum, Thunberg, Welch, Hynes).  
 Wrong DX Juke Box tape sent to Bonaire for 11/25 airing, so at 0255 we got to hear V. Goometilleke after all, despite new stated policy of depriving us of him. But presumably the tape intended for Bonaire went to Madagascar instead, so Victor's report wasn't heard in Asia! Let's get all the regional DX reports back on all airings of DX Juke Box! This isn't the way to save time: can the music (Hauser).  
 591mf PHILIPPINES R. Veritas; 1400 English pgm on nuclear medicine//15214 & 11956 (Willis).  
 595 BRAZIL R. Cultura da Bahia; 2338 Portuguese talk by man, mentions of Bahia (Fedor).  
 595 JAPAN NSB; 1530-1700 Japanese midnight show and music (Ohtake 12/3).  
 600 ASCENSION ISLAND BBC; 0551 Hausa ID into World News Program (Bryan 11/28).  
 600 USSR R. Tashkent; 1228 End of EG Pgm (Hascall). 1400 EG ID, nx, cmntry (Onken).  
 605 VATICAN STATE Vatican Radio; \*0100 English news & cmntry (Tomkewich, McCants).  
 610 AUSTRALIA ABC (Perth); 1400 EG World Nx (Yacono). 1535 EG Nx & MOR music (Fraser).  
 615t MOROCCO RTVM; 2110 Arabic talk & chants, zitar mx (Sarrazin 11/12) -See below (ed)-  
 615t SAUDI ARABIA BSKSA; 2214 AR talk & string music (Earhart 11/15) -Morocco? See above!  
 620 SWEDEN R. Sweden; 0045-0052 English w/Sweden Calling DX-ers (Hynes 11/30).  
 625 CANADA CBC Northern Service; 1430-1500 English w/economic cmntry (Burke 11/19).  
 625 SWITZERLAND SBC; 0014 French news program (Leffler 11/28).  
 530 SWEDEN R. Sweden; 1105 English news and commentary to Europe (Prath 11/25).  
 530 USA WYFR (Florida); 2135 EG pgm on its 2nd day of xmns from Okeechobee (Hauser 11/24).  
 535mf IRAQ R. Baghdad; 2130 French pgm. Surprised to hear here instead of 9745 (Hauser 11/24)  
 540 GUAM TWR; 1103 English ID, Religious mx//11705 (Onken 11/12).  
 540 UNIDENTIFIED; 1415 EG On 11/20 some station here was carrying Pres. Sadat's speech live to the Knesset, as were APTTS & CBC-NS (Hauser).  
 545 ECUADOR HCJB; 0357 Heard hym, gave English ID into Romanian pgm (Earhart 11/9).  
 550 LIBYA PRB; 1850-1931 Arabic news, talk, mx, etc//11700 (Fedor 11/16, Hermann 11/22).  
 554 GREECE VOG; 0800 signing on. Well heard. Seems a newish freq. (Willis) -Lang? (ed)-  
 560 AUSTRALIA ABC (Brisbane); 1109 English cmntry on China (Wallack 11/23).  
 565 KOREA (SOUTH) R. Korea; 1335 English news. Suddenly went off air at 1340 (Gionet 11/20)  
 565 SWEDEN R. Sweden; \*1400-1430\* English news, Panorama, SODX (Pearson, Thunberg).  
 570 PORTUGAL IBRA; 2026-2100 German pgm into English religious pgm (Hermann 11/19).  
 570 PORTUGAL AWR; 2100 English ID into Romanian pgm (Hermann, Pyatt, Fedor).  
 575 POLAND Polish Radio; 0628 English program with a good signal (Burke).  
 580 LEBANON R. Beirut; \*0130-0300\* English North American Service (Miller 11/23) -More details please! (editor)-  
 585 ALGERIA RTVA; 2035 Arabic talking by a man & music (Fedor 11/16).  
 585 CUBA RHC; 0110-0355 English News, cmntry, Cuban Profile (Golkin, Greenes, Alexander).  
 590 ARGENTINA RAE; 0021-0230 Spanish ID & talk w/Tango music (Leffler, Valko, Ohtake).  
 0300 English talk on Goat & Cattle Breeding in Argentina (Bohke, Burke).  
 95 SPAIN RTVE; 1930 Arabic news, music into Spanish pgm at 2030. //11810 (C.Sherman).  
 95 SWEDEN R. Sweden; 0100 Swedish program into Spanish pgm at 0130 (Brookwell 11/17).  
 05 MEXICO R. Mexico; 1400 Spanish talk and music (Prath 11/13).  
 10 ITALY RAI; 0026 Italian talk and music (Leffler 11/28).  
 15 CANADA RCI; 0100 French news and Magazine Program. Spanish at 0130 (Alexnader 11/26).  
 20 KOREA (SOUTH) R. Korea; 1755 English w/IS, ID, news. Strong signal (Berezowski 11/20).  
 20 SRI LANKA SLBC; 0115 English w/Birthday Greetings, Back to Bible, etc. (Hermann).  
 25 SWITZERLAND SBC; 0150 English news and talk on Rhodesia (Thunberg 11/11).  
 30 GERMANY (EAST) RRI; 0105+ English ID, news, cmntry (Hermann, Greenes). 0233-0251 English news, music, editorials, propaganda (Edelstein, Innat).  
 30 UGANDA UBC; 2030-2100\* English nx, cmntry, African mx (Greenes, Godfrey).  
 40 MALAYSIA BBC; 1330 English World News, Radio Theater (Yacono 11/25).  
 45 CAMEROON R. Yaounde; 0502-0645 French & English news, talk about Soviet economic imperialism in the horn of Africa, many IDs (MacKay, Utter, Willis, Onken, George).  
 1920-2055 English & French w/coverage of party at Presidents palace (Baysa, Sapoznikow).  
 45 IRAQ R. Baghdad; 1958 English tlk, ID & chanting (Greenes). 2221 EG ID (Hermann).  
 50 CHILE R. Minería; 1037 Spanish tlk, commercials (Banco de Concepcion) (Jones 11/22).  
 50 AUSTRALIA R. Australia (Shepparton); 0835 English news read by woman (MacKay 12/4).  
 50 GREECE VOG; 0004+ English News pgm; French at 0030 (Burke, Tomkewich, Prath).  
 55 ASCENSION ISLAND BBC; 2315 English news about Britain (Prath 11/9).  
 70 AUSTRIA ORF; \*0130-0155\* English news, Austria & the UN, etc. (Fraser 11/2).  
 70 CYPRUS Cyprus Bc. Corp; 2215 Guitar IS, Greek ID & talk (Sarrazin 11/18).  
 70 SEYCHELLES FEBA; \*1720 lang into Arabic at 1740-1845. IDs and religious programming. (Utter 11/19, Godfrey 11/22, Brookwell 11/30).

- 9780 ALBANIA R. Peking; 0100 English news & cmntry (Swanson, Tomkewich). 0315 English talk about Mao & Russian communism (Prath, Baum).
- 9790 ALBANIA R. Tirana; 0031 Albanian talk w/folk music (Leffler 11/28).
- 9805 EGYPT R. Cairo; 2233 English news, ID, Cairo Magazine (Greenes 11/8).
- 9815 ISRAEL IBA; 2000 English Interview w/Dayan (Thunberg). \*2230-2300\* English news, editorials, Round & About, Calling All Listeners (Fraser, McCants, Burke).
- 9920 CHINA R. Peking; 1220 English talk w/patriotic music (Gionet 11/11, Fraser 11/13).
- 9930 UNIDENTIFIED; 1940 Arabic music w/talk by man in possible Arabic. (Fedor 11/17).
- 9940 CHINA R. Peking; 0103 English news & talk on religion (Fedor 11/18). 0230 English cmntry (Clift 11/26).
- 9952 INDIA AIR; Well heard once again at 1530 w/English news (Willis).
- 9965 CHINA R. Peking; 2325 Unid. language. Barely audible w/Chinese N.A. (No name 11/23).
- 9977 KOREA (NORTH) KCBS R. Pyongyang; 1210 English news & ID (Greenes). 2300-0050 English News, communist propaganda, etc. (Fedor, Hermann, Burke, Edelstein, Leffler, Gavarras).
- 10000 ARGENTINA LOL Time Station; 2305 Time pips w/Spanish ID & Time every 5 min (Alexander)
- 10040 VIETNAM VOV (Hanoi); 0121 French pgm to S.E. Asia (Brookwell). 1020-1027\* English political talk (C. Hoffman). 2042+ English ID & talk on communist party (Fedor, Hermann)
- 10060 VIETNAM VOV (Hanoi); 0028 Vietnamese talk & music. (Brookwell). 1140-1445 Vietnamese talk, music, cmntry, etc. (Prath, Gionet, Sarrazin).
- 10225 VIETNAM VOV (Hanoi); 0012 Vietnamese talk w/no mx. 2nd pgm! (Brookwell 11/20).
- 10245 CHINA R. Peking; 2356 Chinese talk & Chorus music, ID & IS at 0000 (Brookwell 11/30).
- 10335 INDIA AIR; 1450-1530+ English news, ID, Spotlight, etc. (Willis, Godfrey 11/9).
- 10375 UNIDENTIFIED; 0047 talk & band music. Fluttery. Suspect China. (Brookwell 11/30).
- 11290 CHINA R. Peking; Noted w/sign off at 1734 with National Anthem (Fedor 11/18).
- 11350 KOREA (NORTH) KCBS; 2045 Korean talking with cuts of Asian music (Fedor 11/15).
- 11535 KOREA (NORTH) KCBS R. Pyongyang; 0036 English talk on reuniting Korea (Grenier). \*2300 English ID, nx, cmntry, talk about Rev. Army//9977 (Thunberg, Golkin).
- 11620 INDIA AIR; \*1745 English program to United Kingdom w/Indian music (Hywarren, Gionet). 2000 English news program (Wootten).
- 11630 CHINA R. Peking; 0025 Spanish on RCSSB talking about 'colonialismo sovietico', then ID. (Hauser 11/27).
- 11630 EGYPT R. Cairo; 1725-1804 Arabic music & talk by man (Leffler 11/27, Fedor 11/18).
- 11630 USSR R. Moscow; 1805 French news & musical interlude (Gionet 11/11).
- 11634 CHINA R. Peking; \*1100 IS, Russian ID "Govorit Peking". Very Weak (MacKay 12/4).
- 11641 PAKISTAN R. Pakistan; 1530 with program of solid music//15520 (Willis 11/21). 2003 Rock music in French, FR ID, frequencies, Pakistani Selections (Wootten).
11644. SOMALIA R. Hargeisa (tentative); likely the African running late 1805-1829\* in African language with harangue by man, African chants, drum music, off with no announcement or apparent identification, as usual, alas, on Thanksgiving (Magne).
- 11650 CHINA R. Peking; 0000 English ID, News, talk on violations of Chinese territorial waters, etc. (Leffler, Grebowsky, Barhart, Johnson). 1225 English talk with Chinese patriotic music but different program from 9920 same time. Fluttery (Fraser 11/13).
- 11675 CHINA R. Peking; \*0000-0100\* English ID, News, Music "The Third World Marches On, Chinese language course (Golkin 12/7).
- 11690 USSR R. Kiev; 0045 English program with Ukrainian music (Gionet 11/19).
- 11695 CHINA R. Peking; 1120 French Identification, news read by woman, oriental music. Strong (Gionet 11/19, MacKay 12/4).
- 11700 DOMINICAN REPUBLIC R. Clarin; 2125-2135 English ID & answering QSL reports (Welch, Miller). 2202 EG ID into Spanish talk & music (Hywarren). 2207 English w/Letter Box pgm (Dunn). 2300-0000 English w/news, reading letters, music, etc. Rudy Espinal said that by popular demand, Radio Clarin will switch from International News to Dominican Republic/Latin American news. (Innat, Swanson, Grebowsky, Berezowski, Fedor, Barhart, Gionet, Golkin, Greenes, Onken). Radio Clarin closing half-hour English program at 2200 designating it not only for Europe but for Far East and Australia; low het from Libya. I've suggested they move to 11985 for a clear frequency. Clarin, that is. I suspect target area designations are a matter of time convenience, rather than antenna beam changes (Hauser 11/12).
- 11700 ISRAEL IBA; 1957 Arabic Service with an Identification (Wootten 11/7).
- 11700 LIBYA PRB; 1705 Arabic talking by a man & chanting (Fedor 11/18). 1806 Arabic talking (Leffler 11/27).
- 11700 USSR Radiostantoya Rodina; 0500 Russian news, symphony music & ID's//11740, 11785 & 11795. Note correct spelling of Radiostantoya. After checking with relatives and Russian Spelling (РАДИОСТАНЦИЯ), - I came up with the proper translation. (Hywarren 12/11). Excellent Arron!!! (editor)-

Thank you to all who reported this month! Until February, 73 and good DX!



# log section



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11701 & above

JANUARY, 1978

Happy New Year! Many thanks to those who have sent cards or called. This is Alan Mayer's final month as Publisher, and I just want to say that I believe Al deserves all our thanks for having produced and dispatched **RENDEX** for a total of 32 monthly issues, starting in June, 1975. Despite the pressures and responsibility, Al has never lost his sense of perspective and humor, and I have yet to hear him say anything unkind or disparaging about any individual — a remarkable feat which, in itself, should entitle Alan to some sort of award in recognition! Few people are aware of the number of hours and lost vacations that putting out a monthly publication such as this requires. For seeing that **RENDEX** is something more than just a sum of its sections, we all owe Alan a resounding "Well done!" And to Bill Oliver, who will take over publishing with the February issue, let's say "Welcome, and thank-you!"

- 1704.3 **CHILE** Voice of Chile (they have dropped the "Free" -ed.); 2330 SP, R. Colo Colo relay, normal pgms pre-empted until past 0130 with mx, rapid fire monologues, dialogues, and sports pgm at 0130; Colo Colo's 14530 xmtr was // until 0000; while 15130 xmtr carried Colo Colo, 9566 still had normal VOC pgm (Utter 11/30); 0130 SP, mx, v.strong, (Brookwell 11/9); 0210-0230 EG (5 reporters); 0317 EG, cmnt on Chilean balance of trade (Bryan-CA 11/12).
- 1705 **AUSTRALIA** RA; 1530 EG, Australian nx in brief (Fedor-CT 11/18).
- 1705 **FRANCE** RFI; 1735-1748 EG, "Africa: Past and Present" (Nick Pappas-PA 12/2); 1808 FR, nx about Sadat (Leffler 11/27).
- 1705 **JAPAN** R. Japan; \*2345 EG, Japan steel industry association welcomes Am. export plan; currency policy cmnt. (Stanziale 11/15).
- 1709.8 **ARGENTINA** RAE; 2305-2345 EG, nx (Berezowski 11/8; Swanson 11/15).
- 1710.1 **NEW CALEDONIA** R. Noumea; 0653 FR, pop mx, weak, //7170 (Mackay 11/13); measured freq at 0535 (DLW 12/26).
- 1710NF **USA** WINB; 0100 SP rel pgm w/EG ID; unlisted (Brookwell 11/10).
- 1715 **EGYPT** R. Cairo; 0041 PT to Brasil, mx with M vocal (Leffler 11/28).
- 1720 **AUSTRALIA** RA; \*0630-0727 EG, nx in brief, musical requests; item on carp (Hynes 12/2, Johnson 5/12).
- 1720 **CANADA** CBC Northern Svc.; 2110-2200 EG, pgm about alcohol problems in the North (Wallace-JAPAN 11/23).
- 1720 **CHINA** R. Peking; 0000-0045 SP, Chinese mx, philosophy; strong with flutter (Grebowsky 11/23, Mackay 11/13, Leffler 11/28).
- 1725 **CUBA** R. Habana Cuba; 0205-0230 EG, Cuban mx (Grebowsky 12/1).
- 1725 **USSR** R. Station Peace and Progress; 1050-1100\* EG (Thunberg 11/20).
- 1730 **HOLLAND** RN-Lopik; 1811 AR, mx (Leffler 11/27);
- 1730 **MALAGASY REP.** RN-Talata; 2035-2051 EG, "His & Hers" (N.Pappas 11/29).
- 1730 **USSR** RS&P; 1250-1300 EG, solidarity etc.; fair (Grebowsky 12/1).
- 1735 **BELGIUM** BRT; 2015 FR, magazine pgm for Afr. (Wooten-TURKEY 11/7).
- 1745 **ECUADOR** HCJB; \*1215-1630\* EG, quiet mx, radio bible institute, W with "Salome" (Grebowsky 11/25, Cucura 11/28).
- 1750 **UK** BBC W.S.; 1813 EG, "Radio Newsreel" (Leffler 11/27).
- 1755 **SEYCHELLES** FEBA; 0309 Farsi (per sked -ed.), IS, nx (Bryan 11/22).
- 1765 **GERMANY W.** DW; 1549-1610 GM, light mx, M with nx (Cucura 11/28).
- 1770 **INDIA** AIR-Aligarh; 2335 EG, beautiful local mx, full ID at 2340, fair/good; //11815 (worse) (Hywarren 11/11).
- 1770 **NIGERIA** VON; 1845-1910 EG, good, //15120 (6 reporters).
- 1770 **YEMEN PDR** DYBS; 1430-1600+ AR, lots of Arabic mx, //7190, but no longer on 5060 (M.Willis-AUST 11/20). DYBS = Democratic Yemen B.S.
- 1775 **ANTIGUA** BBC W.S.; 1205 EG (Prath 11/25). Sked gives \*1300-1330\*-ed.
- 1775 **INDIA** AIR; 1021-1040 EG to Aust./NZ; S.Asian mx; medium level to strong by 1040 (Mackay 11/20).
- 1780 **BRAZIL** RNB; \*1900 PT, chimes into ID, pop mx (Brazilian) for

- Amazonia (Mackay 11/10); 0155-0203+ PT, later than usual due to soccer broadcast; two excited announcers (Earhart 11/25).
- 11780 NEW ZEALAND R. NZ; 0714\* EG, amnt of s/on on 11820 at 0730; "This is Radio New Zealand", xmtr off; strong (Mackay 11/13).
- \*11780 USA WYFR-Okeechobee FL; \*1854 EG, awful hum, so I called them at 1900, saying they ought to fix it or take it off the air, which they did finally at 1932. The operator had not been aware of the problem, saying his modulation meter looked OK. This indicates they are monitoring only their outgoing audio before it goes into the xmtr, not their own signal off the air! (Hauser 12/4); \*2036-2050\* EG, two quick IS's and into pgm mid-sentence, terrible hum in their xmtr (Ravenhorst 12/4). They seem to have fixed the hum; Okeechobee uses 17730, 15110, 15130, 11780, 9630, 11885 (given in chronological order, 1250-0500), per G.Bishop on DX Digest 12/11.
- 11785 BRAZIL R. Guaiba; 0250-0301\* PT, tlk, instr. mx (Alexander 11/26).
- 11785 GERMANY W. DW; 1200-1215 GM, nx, cmntry about Israel (Grebowsky 11/28). I am not sure that this is not Antigua -ed.
- 11790 AUSTRALIA RA-Shepparton; 0705 EG, info about Australia mixed with Aus. folk songs (Mackay 11/13); 0736-0810 EG, rock mx, chatter, TC's, Papua NG Svc. (Pickard 12/11). Tnx for the sked, Will! -ed.
- 11790 USA AFRTS via VOA-Greenville; 2020 EG, what's unusual is the extraordinary strength of this signal in Turkey -- only stronger VOA at this hour is Kavala (Wooten-- Izmir, TURKEY 11/7). Charles, what're the current freqs of RMC's feeders to M.E.? -ed.
- 11800 NETH. ANTILLES TWR-Bonaire; 0140-0155 SP (Grebowsky 12/1).
- 11800 SEYCHELLES FEBA; 0356-0445 EG to Afr. (Burke 11/26, Dunn 11/27).
- 11809a CHILE VOC; 0215 EG, anti-commi talk (Hascall 12/9); 0210-0230 EG, nx, stressing Chile's close ties with Germany; good (Calderwood-CO 12/3); 0910-0925, VOC theme mx, multi-lang ID's with freqs & langs; it appeared to be a voice mirror as it was repeated from 0910 to past 0925 (Hywarren 11/13). Cf. 11704, 14530 -ed.
- 11810 ANTIGUA DW; 1330 GM, ID followed by world nx, g (Yacono 11/26).
- 11830 LIBERIA ELWA; 0624, ID in EG, FR, AR; into Hausa pgm; unbelievable chants which mentions "Radio ELWA"; exc. (Hywarren 12/11); 0825-0850 FR, rel conversation, musical mailbag (Packard 12/11).
- 11835 SRI LANKA SLBC; 1130\* EG to S.E.As., part I of the "Bing Crosby Story", NA, good (Mackay 11/27); 1130 EG s/off (Burke 12/1).
- 11855 SAUDI ARABIA BSKSA; 1645+ AR until RCI at 1700 (Godfrey 11/19); 1900-2000 EG, "A Daily Chronicle", "This is Islam" (7 reporters).
- 11860 KOREA S. R. Korea; 1130-1200\* EG, nx, Korean mx (C.Hoffman 12/2).
- 11860 LIBERIA ELWA; 2020-2115 EG, rel talks, "Back to the Bible", nx at 2114 (Bohke 11/16, Greenes 11/18, Gionet 11/17).
- 11865 ANTIGUA DW relay; 0030 SP, news, talk (Prath 11/7).
- 11865 CANADA RCI-Sackville; 1926-1930 EG, Canada Ice Sports, "How Deep Is Your Dye", into 1930 FR, then to 2000 EG (Hascall 12/9).
- 11880 SPAIN VOS/RNE; 0130 EG, nx, talk (Prath 11/7); 0346 EG, DX pgm (only 5 minutes long) (Baum-FL 11/6).
- 11885 URUGUAY SODRE; 2313-2336 EG/SP, nx, ID, mx, "Noticias de Pais" (N.Pappas 11/22); 0035 SP, tlk abt Uruguayan meat production; 0038 ID, fire warning; by 0100 WYFR-Florida was dominating on S.Am. beam; announces //9515 (Hauser-TN 12/2).
- \*11885 USA WYFR-Okeechobee; 0245-0300 SP, typical Family Radio show, site ID at 0300 (Bishop 12/5). Sked 11885 from 2250-0500 per Gerry -ed.
- 11900 AUSTRALIA RA-Carnarvon; 1550-1600 EG, pop mx (Ray Stevens), time pips (Edelstein 11/27); 1630 EG, R.Australia nx (Hynes 11/9).
- 11905 GERMANY DW; 1930 EG, nx, tlk on Algeria & Morocco; Afr. Svc. (Hersh 11/10); 1935 EG, heavy QRM from R.RSA, 11900 (Fedor 11/18).
- 11906v IRAQ R. Baghdad; 0245 AR, tlk, Western mx (Alexander 11/26); 0440 AR, Arab mx and vocals, male announcer (Bryan-CA 11/30).
- 11905 TAIWAN Central Broad System (VOFC); 1100-1130\* Mongolian, M with lengthy tlk, Chinese mx interludes, no jamming (C.Hoffman-PA 12/4).
- 11914.9 ECUADOR HCJB; 0105-0530 EG, "Passport" etc. (5 reporters).
- 11920 IVORY COAST R. Ivory Coast; 1935-1957 EG, rock mx (Fedor-CT 11/16, Cucura 12/2); 1939-1958 EG, pgm on 17th anniversary of independence (N.Pappas 12/6); 2227-2348 FR, dramatic features, pop, rock & indigenous-style mx (Bryan-CA 11/13, Earhart-PA 11/23).
- 11925 BRAZIL R. Bandeirantes; 0010 PT, with what sounded like a soccer game (Gionet 11/16); 0031-0046, under TWR (Walko 11/9).
- 11925 NETH. ANTILLES TWR; 0100-0133 EG, nx, mx, causes of discontent, "Radio Today" (Grebowsky 11/23, Baum-FL 11/19, Earhart 12/4).
- 11930 FRANCE RFI; 1740 EG, "Paris Calling Africa" (Yacono-NY 11/25).

- 11930 HOLLAND RN-Lopik; 1516-1520\* FR, music, ID (Cucura 11/28).  
 11935 SRI LANKA VOA-Colombo; 1600 EG to S.Asia, mx (Edelstein 11/27).  
 11940 USSR RM; 0915-1000 EG, Soviet life, mx, etc. (Berezowski 11/19).  
 11945 CHINA R. Peking; 0136 EG, tlk on agriculture (Grenier 12/5).  
 11945 LIBERIA ELWA; 1620 EG/unid lang; EG IS & ID, then into ?Hausa  
 pgm at 1630; fair signal (Cress-VA 11/30).  
 11945 SEYCHELLES FEBA; 1545-1555 EG, rock rel pgm, M host, ID, good  
 signal (Onken-IL 11/12). Target area is S.Asia; see 15325 -ed.  
 11945 MOROCCO UN Radio via VOA-Tangier; 1800 EG with ID (Yacono 11/25).  
 11950 KAZAKH SSR R. Alma Ata; \*0000-0305\* Kazakh?/RS, with bells IS,  
 another IS, chimes, USSR NA, then ?Kazakh anthem (Mackay 11/11&13).  
 11955NF ECUADOR HCJB; 2000-2030 EG, DKPL (Hynes 11/18); 2030 EG into FR,  
 for Europe, announcing this & 15300; ex-16 mb (Hauser 11/13).  
 11955 PHILIPPINES R. Veritas; 1405-1426 EG, tlk, organ mx (Gionet 11/12).  
 11960 MALI R. Nac. de Mali; 1710+ FR, tlk, Afr. mx (Godfrey 11/19).  
 11960 USSR RSP&P; 1300-1315 EG, USA/communist rift (Grebowsky 12/1).  
 11965 FRANCE RFI; 1710-1730 EG, //11930, 11890, 11860 (Earhart 12/4).  
 11970 TUNISIA RTVT; 1445 AR, Arabic mx & chants, poor level (Pyatt 12/8).  
 On what basis did you determine that this is Tunisia? -ed.  
 1985 ALBANIA RT; 1430 EG into unid lang (Berezowski 11/20); 1555 EG,  
 review of the news, with ID; poor (Yacono 11/27).  
 1990 CZECHOSLOVAKIA RP; 1730 EG, ID heard w/nx, cntry (Yacono 11/25).  
 2005 EGYPT R. Cairo; 1802 AR, Koran chanting (Lefler 11/27).  
 2010 USSR RM; 0130-0200 EG, is Armavir, mx on new jet (Sarrazin 11/27).  
 2033v VIETNAM VOV; 0035 IN, songs by W, freq slid down a Khz at 0045;  
 //10040 (Brookwell 11/20).  
 2040 UK BBC; 1258-1302 AR, tlk, Big Ben, ID at 1300 (Fraser 11/20).  
 2050NF KOREA N. R. Pyongyang; 2300 EG, ID by a woman, news read by same  
 woman, //9977 (Fedor-CT 11/18). I wish you had given more info! -ed.  
 2050 USSR RM; 2340-0040 EG, usual talk (Gionet 11/20, Prath 11/14).  
 2085 KUWAIT RK; 1725-1930 EG, pop, rock, & jazz mx (5 reporters).  
 2095 UK BBC W.S.; 1758 EG, sports (Lefler 11/27).  
 2175 ICELAND "VOI"; 1200 Icelandic, local choir mx (C.Hoffman 11/30).  
 2420 CHINA RP; 0313 CH, M&W tlk, songs, //15550 (Brookwell 11/19).  
 2450 CHINA RP; 0110 Cantonese to N.Am., //11990 (Brookwell 11/20).  
 4529.8 CHILE R. Colo Colo; 0231 SP, mx, tlk, good, ID "Nacional de Chile"  
 (Greenes 11/20). It appears Chile is expanding the government net,  
 R. Nac. de Chile, and that this would be the feeder to the new  
 outlying stations; I have also heard this on 6684.2 after 0445. My  
 theory is that R. Colo2 is the flagship station, in Santiago, of  
 the network called Radio Nacional de Chile; hence both ID's -ed.  
 4990 UNID 2225, short high-pitched time pips each second (Sarrazin 11/24).  
 5000 JAPAN JJJ; 1459-1500, "JJY, JJY" said by a Japanese girl under  
 WVVH, plus a Morse ID as well (Berezowski 11/11).  
 5060 CHINA RP; 0000-0025 EG to N.Am., cntry, mx; talk on economic aid  
 by Russia to India; //15520 (Burke 11/22, Fedor-CT 11/18).  
 5100 LIBYA PRBS; 1230-1408 AR, short mx with ID, then apparent news;  
 Koran, orch mx into local song; Finland QRM (Earhart 11/26&28).  
 5104.3 GRENADA R. Grenada; \*1950-2138 EG (9 reporters); back on air after  
 several months, sked & format are similar to before -- listeners  
 greetings, ads (tonic wine, night club) (Utter 11/19+); DJ pgm,  
 strong het from Japan carrier from 2125 (Cress 12/2&5); 2058 EG,  
 announcements of local social events (Hutchins 11/25).  
 5105 FINLAND RF; 1305 EG, nx, Nordic features, lbx, mx (Hoffmann 11/28,  
 Prath-FL 11/20); 1315-1348 EG, int. correspondence in Helsinki,  
 "DX Briefing" w/interview on MW (Sun.) (Greenes 11/20, Swanson 11/9).  
 5105 JAPAN R. Japan; 2300-0130 EG/JP, "Current Topics" (5 reporters).  
 5115NF CHILE VOC; 0002 FR, nx by W, //15130 & 15150 but not on 11705  
 until abt 0300 (Gionet 11/15). May not still be using this fqy -ed.  
 5115 ECUADOR HCJB; 1244-1500 EG rel pgm (Cucura 11/25, McCants 12/1).  
 5116 PAKISTAN RP; 0715 Urdu, well heard here again (M.Willis-AUS 11/17).  
 5120 NIGERIA R. Nigeria; 1800-1927\* EG (5 reporters); 1912+ EG, "Let-  
 ters from Lagos", mx, xmtr kept cutting out (Godfrey 11/8).  
 5120 SRI LANKA SLBC; \*1030-1047 EG, "Greetings from ?" (Wallace-VA 11/13).  
 5120 VATICAN VR; 1700+ EG, Pope Paul (Hoffmann 11/22).  
 5130 CHILE VOC; 2231-0210 IT, FR, EG, SP (8 reporters); 2245 FR, stn  
 has changed names again, back to old V.O.C.; with constant breaks  
 in xms, total FR pgm was about 3 minutes long! (Hywarren 1/22).  
 5130 NEW ZEALAND RNZ; 0655-0715\* EG, "Sq. Deal Club" (Wallace-JP 11/28).  
 5130 USA WYFR-Okeechobee; 1850\* EG, usual pgm w/site ID (Ravenshorst  
 12/4); 1852\* EG, WYFR's first xmtr on the air, as from 11/23, per

- 15140 Gerry Bishop; hugh buzz on the signal; see 11780 (Hauser 12/4).  
AUSTRALIA RA-Shepparton; 0450 EG, mx, man & woman talking on Australian performers. (Fedor-CT 11/18).
- 15140 SWITZERLAND SBC; 1330-1345 EG, "Dateline" (Swanson 11/9, Earnhart 12/4); 1410-1418 DT FR, choir, nx (Earnart 11/26).
- 15145 PORTUGAL RFE; 1623-1651 PL, abt Britain, USSR/Socialism, Solzhnitsyn, Bangladesh & floods, mx, fair (Hermann 11/25).
- 15148 PAKISTAN RP; heard here as well -- Urdu at 0720 (Willis 11/21).
- 15148.8 CHILE VOC; 2258 FR; 15130 was off the air; this freq also had odd breaks in xmsn; //11704 was buried by 3 stations (Hywarren 11/22).
- 15155 SOUTH AFRICA R. RSA; 1717-2320 DT, FR, EG (9 reporters).
- 15165 DENMARK RD; \*1303-1355 DN, nx & mixed mx (Cucura 11/25); 1402 EG, ID only (Greenes 11/24); 1721 EG, ID only (Leffler 11/27).
- 15170.2 SOCIETY IS. R. Tahiti; 2246 FR, "Sounds of Silence", "Red Roses For a Blue Lady" (Bryan 11/13); 0121-0155 FR, "Star Wars", "Hot Legs", "Telephone Line" (Ihnat 11/21); freq per DLW.
- 15175NF GUAM 2250 unid lang, usual religious pgm, full EG ID and IS at 2255 into class mx fill; fair with heavy QRM (Hywarren 11/15); 2207-2259\* unid lang, many ID's, mx; testing? (Hermann 11/23).
- 15175 NORWAY RN; 1410-1420 EG, ID by M&W, nx & views & mx (Cucura 11/20) 1605-1630\* EG, nx features on Norway (Edelstein & Yacono: 11/27).
- 15190 CONGO Voice of the Congolise Revolution; 1723-2002 FR (Leffler 11/27, Hermann 11/11, Jones 11/27, Cucura 11/16); 2130-2138 EG, nx (5 reporters); 0100 s/off; & \*0900-1400\* sign off (Willis 11/23).
- 15195 JAPAN RJ; 2008 EG, nx, excellent (Mackay 11/12); 2300-2330 EG/JP, news & commentary (Ohtake 12/4).
- 15205 INDIA AIR; 1016-1050 EG, to Aust/NZ w/Indian classical mx; strong but faded to v.weak at 1050; //15250, 11775 (Mackay 12/4).
- 15210 FRANCE RFI; 1720-1745 EG, "Paris Calling Africa", nx & mx (Cucura 11/16, Prath 11/25).
- 15220 HOLLAND RN-Lopik; 1730-1740 DT, nx & cmntry (Cucura 11/16).
- 15220 MADAGASCAR RN-Talata; \*2030-2120\* EG (Greenes 11/7, Grenier 12/4).
- 15225 TUNISIA RTVT; \*0428 AR, NA after long tone; ID; //7275 much stronger (Mackay 11/11); 1450-1520 AR, chants, amnts, long songs (Sarrazin 11/8); 1725 AR, mx (Leffler 11/27).
- 15235 JAPAN RJ; 1026 EG, mostly Asian nx; JP/CH treaty tlk (Fedor 11/17).
- 15250 INDIA AIR; 1014 EG, nx to 1015, //15205 stronger (Mackay 12/4).
- 15260 ASCENSION IS. BBC W.S.; \*1958-2005, nx, //9580, 11750 (Welch 11/19)
- 15260 CANADA RCI; 1800-1830 EG to Africa (Edelstein 11/27, Hoffmann 11/19)
- 15270 CHINA RP; 1245 EG, nx, ID, s/off at 1255 (Greenes 11/20).
- 15270 JAPAN R. Japan; 2345-0045 EG to N.Am. (6 reporters).
- 15283 GERMANY W. DW; 1430 GM, spur here & 15263; from 15275 (Willis 11/20)
- 15290 PHILIPPINES VOA; 0000 EG, world nx, comment (Prath-FL 11/16).
- 15299.9 ECUADOR HCJB; 2000-2030\* EG, DXPL (Stanziale 12/8); freq per DLW.
- 15300 FRANCE RFI; \*1706 EG, nx, African mx, nx about Africa, "P.O. Box 9516" (Stanziale 11/20); 1738-1800 EG (Leffler 11/27, Hoffmann 11/19)
- 15300 SWITZERLAND SBC; \*1315-1345\* EG, nx, DX show (Fraser 11/26).
- 15305 CHINA RP; \*0100 SP, IS, ID, EIR, noticias (Mackay 11/11).
- 15305 SWEDEN RS; 1230-1300 & 1400-1430 EG (6 reporters); 1430-1500 SW, nx of Nordic area, Panorama (Miller 11/21); moved to 17790 now -ed.
- \*15309v GUINEA Radiodiffusion Nationale; 2100-2220 FR/Vernaculars, chants, "La Voix de la Revolution", fair/good with slight het (Hywarren 11/25). Was on 15309.7 but when checked 11/8 was on 15307.6 -ed.
- 15310 JAPAN R. Japan; 2245 JP, tlk (Prath 11/25).
- 15310 MALAYSIA BBC-Tebrau; 1012 EG: World Svc. (Mackay 12/4).
- 15311 INDIA AIR; 0250 EG, nx (Willis-AUST 11/21).
- 15325 SEYCHELLES FEBA; 1356 unid lang; IS, ID's from 1356, first time heard on this freq (Cress 12/3). Lang sked as follows for 15325 & //11945: 1400-1415: Sa Dari; Su-Tu Dari; We-Fr Puanto. And from 1415-1430 daily in Urdu. So... your language is Sa Dari -ed.
- 15340NF USA WINB; 1810-1820 EG, "God's News Behind the News" (Welch 11/9); 1945 EG; way to go, FCC! WINB now assigned here, co-channel with Cuba, noted with Paul Harvey politico-religious lecture (Hauser-TN 11/29). Maybe Chile and a few others could be induced to move here too! Havana s/on into \*1700 FR; WINB s/on 1705 into EG -ed.
- 15345 KUWAIT RK; 0630-0700 EG, travelogue pgm on Morocco, including cities of Fez and Tangier; heard in my car (Wootten-Turkey 11/26).
- 15349.- LUXEMBOURG RTL; 1745 FR, quiz on songs (Leffler 11/27). Measured 34 freq here 12/25 and 12/26 using new freq counter. with the R4-B -ed
- 15360 FRANCE RFI; 1715-1753 EG, nx about Afr., requests (Alexander 11/12)
- 15360 MOROCCO RTVM; 1152 AR, chanting & talks by W (Fedor 11/19).

- 15360 USSR RM; 1022 EG, W talk on "controlling the weather", music, more talks (Fedor 11/17).
- 15361 MOROCCO RTVM; 1400 AR, heard here at fine level, //11734 (Willis).
- 15364 INDIA AIR; 0900 with special slow speed EG nx (Willis-AUST 11/20).
- 15365 AFGHANISTAN RA; 1148+ EG, local mx with M anc, many ID's as "Radio Afghanistan, Kabul" by M&W; into unid lang at 1200 with M announcer (Gionet 11/19); 1155 EE, local mx (Fedor-CT 11/17).
- 15380NF MADAGASCAR RN-Talata; \*1830-1850 EG to Africa, site, Newsblock, etc. (Hermann 11/11); 1854 EG, on this freq despite slick sked listing 15375 (Hauser 11/13). Moved again to 15385 on 11/17 -ed.
- 15400 IRAQ R. Baghdad; 1405 Urdu?; chants, tlk, mentions of Iraq; apparent sked Urdu pgm; fair signal (Cress-VA 12/3).
- 15400 VENEZUELA R. Nacional; 2200-2207 EG with DJ Charlie Nash; rapid fade out from good to poor in seven minutes (Nick Pappas 11/29).
- 15425 SRI LANKA SLBC; 0114-0135 EG, M with request pgm mixed mx & ID then into religious pgm (Cucura 11/26); 0420-0429 EG, straight Western mx until s/off; no dx pgm heard; "will return this evening on 15425, 9720, 6075..." good (Wootten-TURKEY 11/27).
- 15425 TAIWAN VOFB; 0110 EG, world nx, lbx (C.Hoffman-PA 11/13).
- 15435 MALAYSIA BWC W.S.; 2325-2358 "folk & country British style" (Stroh 11/27); 0010 "News About Britain"; good (Fedor-CT 11/16).
- 15435a TANZANIA RT; 0435-0500\* EG, Western & African mx until 0455 news; did hear 1025 MW in parallel; poor due to jammer (Wootten-TURKEY 11/27); 1814 EG, local mx, mention Dar-es-Salaam (Fedor 11/16).
- 15450 PHILIPPINES FEBC; 2355 EG, rel mx, lbx, ID, 0000\* (Fedor 11/17).
- 15485 ISRAEL IBA; 1223-1230 EG, anmts, weather report, ?commercials, headlines, into French at 1230 (Wallace-JAPAN 11/29).
- 15546 ISRAEL IBA; 1300 EG, curious fcy, fine level (Willis-AUST 11/24).
- 15590 UK BBC; 1831-1926 FR for Africa, SSB feeder, ID (Brookwell 11/20).
- 15670 UK BBC W.S.; 1430, apparently a new RC SSB feeder (Hauser 11/26).
- 17665 ISRAEL IBA; special freq for Sadat visit coverage; jammed right up until 1400 when his speech in EG translation began. NPR and Mutual were using this feed for their live network radio broadcast throughout North America; //15545 (Hauser 11/20).
- 17685 ISRAEL IBA; 1235 FR, nx, wx with snow in Tel Aviv; (Gionet 11/13).
- 17705 AUSTRIA ORF; 1230 EG, "Around Austria" pgm (C.Hoffman-PA 12/1).
- 17710 NEW ZEALAND RNZ; 0030 EG, man talking about New Zealand chickens, with tapes of their voices; //15380 (Fedor 11/16).
- 17720 FRANCE RFI; 1633 FR, pop mx, sports scores (Leffler 11/27).
- 17745NF SWAZILAND TWR; 1915 FR, IS, ID by man, mx, man with talks; excellent signal, better than 11955 (Fedor-CT 11/17), tho you reported this on 17740, I believe 17745 is the correct one -ed. \*1915 FR/unid lang; IS, ID in FR, into rel pgm in African vernacular; strong (Mackay 11/12, 12/3).
- 17790 UK BBC; 1400\* RS, BBC uses this freq until 1400; Sweden anc'd it would move here from 1300 to 17790 @ 1400 7/12 (Hauser 11/26 ?and 12/7). Is 1400 on 12/7 when they ann'd it or when they said they would make the move -- rather than at 1300?? -ed
- 17795 RWANDA DW; 0000 GM, nx (Prath 11/20); NF/RF? -ed.
- 17801 CILI VOChile; 2232 IT, on 16m for the first time? Noted in the clear after VCA 2232\*; still a weak het, perhaps from CINA; at 2313 opened English, still an only 19,25,31,49 mb (Hauser 11/17); 2318 EG, nx, best on 16 m, //15130, 15149 (Mackay 11/19).
- 17810a PHILIPPINES FEBC; 0020-0040 EG, beamed to Japan, religious pgms, "FEBC Radio News" (Hauser 11/13, DiLeo 11/26, Hynes 11/13).
- 17815 BRAZIL R. Cultura; 2356 PT, Brazilian mx, talks (Fedor 11/18).
- 17815 ISRAEL IBA; 0700 EG, special program on Sadat's visit (Willis); 1205 EG, about Sadat visit to Israel (Gionet 11/18); 1225 EG, sign off w/freqs and into Hebrew at 1230 (Prath-FL 11/27).
- 17825 VATICAN VR; 1525-1530\* EG, //11875, 15165 (Cucura 11/16).
- 17830 GREECE VOG; 1515-1525 EG, ID with news (Cucura 11/16).
- 17900 VATICAN VR; 1709-1714 EG, M anc (Burke 11/6).
- 17909 CUBA RHC; 2130 EG, quite clear on this spur from 17885; matches minus 24 khz spur on 17861 (Hauser-OK 11/25).
- 17920 EGYPT RC; 1410 AR, special coverage direct from Israel, in Arabic, of Pres. Sadat's speech to the Knesset (Hauser 11/20).
- 21540 GERMANY RBI; 1405-1425 EG, cmnt on South Afr. (Cucura 11/16); 1410 EG, nx, cmnt (Prath 11/13); 1415 EG, DX pgm "directed to S.E.As."; good (Cress 12/5); 1435-1440 EG, neutron bomb cmntry (Burke 11/20).
- 21590 GERMANY W. DW; 1240-1350 IN, with ID, mx (C.Sherman 12/12).

73's, *Save*



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# FRENDX CREDITS

Thank you to 72 reporters this month. Poor, considering the DX being heard.

Brian ALEXANDER, Mechanicsburg, PA (DX-160)...Ricky BAUM, Gainesville, FL (CRF-5100)...Rizal BAYSAL, Washington, MI...Robbie BEREZOWSKI, Calgary, Alta, Canada (DX-160)...Gerry BISHOP, Christiana, PA (DX-160)...Dale BOHLKE, St. Louis Park, MN (Zenith Transoceanic)...Larry BROOKWELL, San Diego, CA (SPR4)...Josephine BRYAN, Tracy, CA (FRG7)...Arthur BURKE, Jr, Leesburg, FL (SPR4)...Michael CALDERWOOD, Denver, CO (DX-40)...A.A. CLIFT, Campbellville, Ont, Canada...Hadley CRESS, Harrisonburg, VA (HRO-500)...Joe DILEO, Watertown CT (SPR4)...Guy DUNN, Paramus, NJ (SPR4)...Kenneth EARHART, Allentown, PA (FRG7)...Larry EDELSTEIN, Centereach, NY (SPR4)...Jim FEDOR, Burlington, CT (FRG7)...Marlin FIELD, Hillsdale, MI (SPR4)...Dennis FILKA, Parma Hts, OH (SPR4)...Robert FRASER, Cohasset, MA (XCR-30)...Editor Tom GAVARAS, Wayzata, MN (HQ180)...Charles GEORGE, Dallas, TX (SSR-1)...Onil GIONET, St. John, NB, Canada (SX190)...Mark GODFREY, Broomfield, CO (QR-666)...Jon GOLKIN, Glen Head, NY (DX-160)...Joe GREBOWSKY, Kensington, MD (SPR4)...David GREENES, Lynnfield, MA (HA-600A)...Pete GRENIER, Azusa, CA (FRG7)...Dave HASCALL, Fortville, IN (S-53A)...Editor Glenn HAUSER, Knoxville, TN (HQ-160/FRG7)...Frank HERMANN, Kitchener, Ont, Canada (DX-160)...Daniel HERSH, Hollisopple, PA (SPR4)...Charles HOFFMAN, Manheim, PA (FRG7)...Emmett HOFFMANN, St. Louis, MO (51S-1)...Charles HUTCHIN, Rumford Pt, ME (FRG7)...Chris HYNES, Erie, PA (Zenith Oceanic)...Aaron HYWARREN, Winnipeg, Man, Canada (AR2A/ICF-5900W)...Joe IHNAT, Jr, Coraopolis PA (DX-160)...Dale JOHNSON, Pinawa, Man, Canada (SB-310)...Jack JONES, Jackson, MS (DX-160)...Terry KRUEGER, Casselberry, FL (QR-666)...Irving LEFFLER, Brooklyn, NY (SPR4)...Editor Jerry LINEBACK, St. Joseph, IL (SPR4)...Don MACKAY, Newark, DE (SPR4)...Larry MAGNE, Philadelphia, PA (R4B)...Eric MILLER, Dorchester, MA...Donald McCANTS, Trussville, AL (GE Port)...Bill McMULLEN, Ann Arbor, MI (DR-22)...Toshimichi OHTAKE, King of Prussia, PA (FRG7)...John ONKEN, Metamora, IL...W.J. PEARSON, Avonmore, PA (DX-160)...Wilder PICKARD II, Evanston, IL (FRG7)...Alan PLOTTICK, Hamden, CT (XCR-30)...George POPPIN, San Francisco, CA (FRG7)...John PRATH, Ft. Lauderdale, FL (DX-160)...Edward PYATT Conway, SC (XCR-30)...Steve RAPER, Cedartown, GA (SX-100)...Editor Greg RAVENHORST, Hackensack, MN (R4C)...Garry SAPOZNIKOW, Winnipeg, Man, Canada... (FRG7)...David SARRAZIN, Denver, CO (NC-183D)...Clayton SHERMAN, Hoosick Fall, NY (SPR4)...Thomas STANZIALE, Bloomfield, CT (DX-160)...Ed STROH, Riverdale, IL (SPR4)...Richard SWANSON, Wellman, IA (DX-160)...Leon TANNENWALD, New York NY (SPR4)...Robert THUNBERG, Dubois, PA (SSR-1)...Michael TOMKEWICH, Winnipeg Man, Canada (DX-160)...Dave VALKO, Dunlo, PA (DX-160)...Robert WALLACE, Yokosura, Japan (CT-9505)...William WELCH, Tallahassee, FL (DX-160)...Mike WILLIS, Hampton, Vic, Australia (Trio 9R59DE)...Charles WOOTTEN, APO New York Turkey (R4C)...Dominick YACONO, Brooklyn, NY (Zenith Transoceanic).....

**HELPING HAND** For Sale: Superex AP-S Headphones, good condition, \$17, and a FM Wireless Microphone, \$13.50. Both include surface shipping & insurance. Ed Ricchezza, 201 S. 18th St.-Apt 1215, Philadelphia, PA 19103.

**HELPING HAND** For Sale: Drake SSR-1, 10 months old, in excellent condition, best offer taken & I pay postage. John Marks, 3205 90th St., Urbandale, IA 50322 or call (NOT COLLECT) 515-276-1764.

**HELPING HAND** For Sale: FRG-7, 1 Yr old, w/Gilfer filter, good cond, \$225. also: NEEDED, a SPR4 w/blanker. Wilder Pickard, 1452 Oak Ave, Evanston, IL 60201. Phone (not collect or after 0300 GMT) 312-328-4513.

**HELPING HAND** FOR SALE: MUST SELL, FRG7, as I'm going back to Japan, 3 mo old, in mint cond., \$200, pick up only in Philadelphia now, or in Cocoa Beach FL after Feb 15th. T. Ohtake, B-702, Valley View Apt, King of Prussia, PA 19406 or call (not collect) 215-265-5869 (8-11pm EST).

**HELPING HAND** Information Wanted: I want to buy a new DR-22 or DR-33 from McKay Dymek Co, and I have the \$\$, but I want someone who owns one to tell me in a letter how good they really are. Are they really worth the \$\$ in your own personal opinion? Any info on experiences with these 2 rigs would be greatly appreciated. Arthur T. Ingram, 2805 1/2 Aberdeen Ave, Hoquiam, WA 98550

**HELPING HAND** For Sale: DX-160, 1 yr old w/only wear on front panel, just was factory aligned, w/Heathkit headphones, want \$100. You pay shipping. Also, have 15 IRC's for \$6. Mark Vincent, Box 719, Lockney, TX 79241 or call (not Collect) 806-652-3822 between 2300 - 0400 GMT. Out of space again! '73's Greg

## NASWA ABBREVIATIONS

The following abbreviations are the ones most commonly used in the preparation of Log Report. Abbreviations are sometimes confusing, but they are necessary to keep the amount of space needed to cover an item to minimum. These abbreviations can also be used in reporting loggings to the LR editors. If you do abbreviate, stick to the standard ones listed below. Please do not use abbreviations known only to the contributor.

All times in FRENDX are in GMT, 24 hour system.

\*0000 s/on (sign on)  
 0000\* s/off (sign off)  
 // parallel  
 a,A approximate  
 AP A Portuguesa  
 ARO or HAM Amateur Radio Operator  
 BBC MS BBC Monitoring Service  
 clas classical  
 cmntry commentary  
 CW continuous wave  
 DJ disc jockey  
 ECNA East Coast North Amer.  
 EIR East is Red  
 EL, E-L easy listening music  
 FBIS Foreign Broadcast Information Service of the CIA  
 FE Far East  
 f/i fade in  
 f/o fade out  
 freq,fqy frequency  
 fund fundamental  
 harm harmonic (see X )  
 het heterodyne  
 HS Home Service  
 ID identification  
 Int Internationale  
 IS interval signal  
 ITU International Telecommunications Union  
 LA Latin America(n)  
 lang unknown language  
 lbx letterbox  
 LL language lesson  
 lcl local  
 lvl level  
 M man  
 mod modulation  
 MoR Middle-of-the-road music  
 mx music  
 NA Nat'l Anthem or N. America  
 NF,nf new frequency  
 nx news  
 pgm,px program  
 QRK readability  
 QRM Interference  
 QRN Static  
 QSA Signal strength  
 QSB Fading  
 QTH Geographical location  
 RC, RT recheck, retune  
 relig,rel religious  
 rev revolutionary  
 RF,rf reactivated frequency  
 s/b should be  
 SEA South East Asia  
 SSB single side band  
 svc service  
 t, T tentative  
 TC time check  
 tx transmitter  
 tk,tlk talk  
 ute utility station  
 v varies  
 w/ with  
 W woman

WCNA West Coast N. America  
 WS BBC World Service  
 wx weather  
 x harmonic (also see harm)  
 xmsn transmission  
 xmtr transmitter  
 Af,Afr Africa(n)  
 As Asia  
 CA Central America(n)  
 Eu Europe(an)  
 Pac Pacific  
 SA South America

### Languages:

AR Arabic  
 AK Afrikaans  
 BN Bengali  
 CN Cantonese  
 CH Chinese  
 CZ Czech  
 DT Dutch  
 EG English  
 FR French  
 GM German  
 IN Indonesian  
 IT Italian  
 JP Japanese  
 KR Korean  
 ML Malay  
 NW Norwegian  
 PL Polish  
 PT Portuguese  
 RS Russian  
 SC Serbo-Croat  
 SP Spanish  
 TK Turkish  
 VT Vietnamese  
 VN Vernacular  
 XX Unidentified language

When 3 digit numbers are given in the Log Report, these are "SIO" numbers rating the signal received. The criteria are:

### Signal Strength - S

5=Excellent, greater than S9=20db;  
 4=Good, between S9+5db and S9-20db;  
 3=Fair, S7 to S9+5db;  
 2=Poor, S3 to S7  
 1=Barely audible, less than S3

### Interference - I

5=None; 4=Slight; 3=Moderate;  
 2=Severe; 1=Extreme

### Overall Merit - O

5=Excellent (local quality); 4=Good;  
 3=Fair; 2=Poor; 1=Unusable

# NASWA

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Publishing **FRENDX** Monthly

Unity and Friendship

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

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