



Welcome to 52 new members joining during May. We hope they find their new membership to be helpful.

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|--|--|
| ASHABRANER, Jim, Mountain Home, AR | KNIFE, Audrey M., Calgary, Alta. |
| BARNINGER, Samuel H., Lancaster, PA | LEIGHTON, W.P., New York, NY |
| BEN -YEHUDA, David, New York, NY | LOVITT, David, Mary Esther, FL |
| BOONE, John V., Spring, TX | McELHATTON, Mike, Eagle, ID |
| CABANE, Al., Kingston, NY | MUNDY, L.R., Mendham, NJ |
| CHERRY, Donald, Carswell AFB, TX | MURISON, Marc, Escondido, CA |
| CLEM, Chris G., Dayton, OH | OTAKA, Akiro, Yamanote, Japan |
| DALLY, Robert W., Jr., Poland, OH | PORTER, Stephen, Burlington, CT |
| DELIENS, Paul D., San Jose, Costa Rica | PRIBBLE, Johnny, Fayetteville, NC |
| DRUMMOND, Laverne M., Athens, TX | RADCLIFF, B., Ottawa, IL |
| DUMONT, Charles R., Hull, P.Q. | ROCKEFELLER, M.F., Lexington, KY |
| FALSARELLA, Anthony, Sharon Spgs. NY | ROE, Alan, Herts, England |
| FEARNLEY, William, White Sulphur Springs, WV | RUCKMAN, Robert, Cincinnati, OH |
| FRASER, D., Prince Goerge, B.C. | SCHEFFER, V.L., Los Angeles, CA |
| GAUTHIER, James E., Endicott, NY | SCHMITT, Raymond, Hayward, CA |
| GEORGON, Steven, Worcester, MA | SILVERSTEIN, Ira, Brooklyn, NY |
| GILCHRIST, Johnny, Anchorage, AK | STAPLETON, Clifton, New Braunfels, TX |
| GOODIN, ETN3 Charles, FPO San Francisco ** | TAYLOR, Doug, Orlando, FL |
| HARRINGTON, Rob, Englewood, CO ** | TOMCZYK, Walter J., Wallington, NJ |
| HOWARTH, Jack, Pricedale, PA ** | TOPOLNISKY, Fred, Elkford, B.C. |
| HROMATKA, SP4 Josh, APO San Francisco | VANCE, PFC. Robert, APO New York ** |
| JACOBS, Floyd, Noble, OK | WILLIAMS, John D., Bloomington, MN |
| JONES, Ralph, Longview, WA | WYCUFF, Charles C., Lyman, SC |
| JOSEPH, Fred, Jr., Gretna, LA | YOHANA, William J., Upper Saddle River, NJ |
| KAUMEIER, Rick, Port Huron, MI | YUCAS, Vincent W., Woburn, MA |
| KINCAID, Robert V., Sharpsville, IN | |
| KINGMA, David L., Grand Rapids, MI | |

** Nice to have you back as a member of NASWA

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DX LIMERICKS

An evil old man named Muldoon, Sneaked around one night in the gloom, Because of his pliers, And some bare copper wires, Greenville signed off two hours too soon. And were shanghaied by Radio Beirut.	Two ladies of musical repute, Each purchased an Arabic flute, They took a long trip, Aboard a large ship,
--	--

Blame Jack Jones, Jackson, MS

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Log Reporters Note!

Effective immediately, all material intended for the Log Report sections is to be sent to the new Log Report distributing editor, David L. Walcutt at 2828 Rogerdale, #108, Houston, TX 77042.

Dave Walcutt has been editing the LR-D section of Log Report, and will continue as editor of that section until a new editor is appointed. We appreciate his offering to take on additional work on such short notice.

Retiring editor Greg Ravenhorst leaves a job well done, and one which he handled for over two years. Few are aware that Greg sometimes found it necessary to rearrange some of his personal affairs to allow him to meet FRENEX deadlines. We wish Greg well, and will look forward to his contributions to NASWA and FRENEX in other areas.

Again, repeating our opening statement, send all LR material to Dawid Walcutt at the address given so he will have it no later than the 12th of each month. Late material is not held over, so mail early. If some may have already sent material for the next FRENEX to Greg, he of course will forward it on.

NASWA Radio Country List

We have been out of the NASWA Radio Country List pamphlets for quite some time. Although the list is included as a part of our book "DXing According to NASWA", we have hesitated to reprint the list in pamphlet form since there have been some changes since the last revision in 1976. Country List chairman Don Jensen recently sent HQ the revised copy, so it will soon be at the printers and available to the membership shortly thereafter.

In addition to the revised country list, included in the pamphlet will be Awards Chairman Dan Henderson's NASWA Awards Program as it appeared in the June issue of FRENEX. Since the Country List and Awards Program are closely related, it will make reference to either easier. An announcement will be made in a later FRENEX on when and how to order.

NASWA Directory

The latest edition of the NASWA membership directory mentioned a few times in the past is in the process of being printed and will be available for distribution very soon. This 36 page directory will contain the names and complete addresses of the membership (except those persons who advised they did not wish to be listed) as of June 1, 1978.

There will be a small charge made to help offset the cost of typing, printing, and mailing the booklet. Members in the United States should send 50¢ in coins, money order, check, or mint stamps. Members in Canada may send Canadian currency or money orders in U.S. funds, but no stamps. (The Post Office won't let us use them). Overseas members may obtain a copy by air mail by sending five (5) International Reply Coupons (IRC's).

If you are interested to find out if there are others in your area having similar hobby interests, the directory will show who they are. Who knows, there may be a NASWA member over in the next block.

We are not having a large supply of booklets printed, so orders for it should be sent to HQ as soon as possible.



M.R. Leonhardt
Executive Director - NASWA

shortwave CENTER

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

JULY 1978

Next deadline 15 July

We have quite a variety of articles this month. Thanks to all who have contributed. Why don't you write something, on any shortwave subject, and send it to Shortwave Center. We hope you will find something interesting and informative in this month's offerings.

PIRATES

HOW THE FCC CAUGHT A PIRATE

by Harry Helms, Fort Mill, SC

The March issue of Modern Electronics carried a fascinating piece on the Federal Communication Commission's Special Enforcement Facility (SEF) mobile strike forces. From the article, the FCC sounds like people you don't want to mess with. As the author put it, ". . . in the time it takes you to key your mic as fast as you can, Charlie (the FCC-HLH) knows in which direction you are. If you keyed it just once each minute, for only a second or two, in just a matter of minutes, Charlie would be sitting outside your home writing up that pink ticket for you." Many readers probably wondered if the FCC agents looked and acted like Clint Eastwood.

However, if the FCC is really as sharp as claimed, how could two pirate operations like WDBX and WGOR operate so freely from the heart of Brooklyn? Couldn't the FCC use the same techniques used to shut down WCFR, the predecessor of the latest pirates, to shut down WDBX and WGOR?

The unfortunate fact for the FCC is that the bust and closing of WCFR was not due to any resourcefulness and ingenuity on their part. Rather, the FCC lucked into closing WCFR due to an error on the part of the operators of the pirate. And the operators of WDBX and WGOR have learned from WCFR's mistake.

The FCC has indeed developed an impressive direction-finding capability, but it does have certain limitations. This is especially so on broadcast band frequencies. Effectiveness is further decreased when the DF gear is used in heavily urbanized areas with numerous highrises and much steel. Such factors tend to skew the readings of the DF equipment. For example, the FCC is capable of tracing a pirate signal down to a specific high-rise apartment building. But trying to determine which apartment the signal is coming from is a different story. The WCFR transmitter was located in an apartment building in Brooklyn surrounded by over twenty others, which meant the FCC was faced with the prospect of a prolonged wild goose chase.

The WCFR pirates made use of a technique later adopted by the operators of WDBX and WGOR, namely "dial around loops." These numbers are normally used for internal testing and adjustment purposes by the telephone company but have in recent years become widely used for illegal purposes by "phone phreaks." Most who abuse telephone loops do so to avoid long-distance charges; the WCFR group wished to avoid having calls to their station traced. So confident were the WCFR operators of the security of their operation that by early January of 1976 they had scheduled Saturday night shows into May 1976.

There was one glitch in the WCFR phone system, however; the pirates could not hang up on anyone calling the station. The only thing the pirates could do was take the caller off the air. To continue to receive calls, the pirates had to announce a new loop number and dial their telephone to the new loop. During late January the WCFR pirates were puzzled to find that they were getting no tone when they dialed their half of the loop. Under normal conditions, they would hear a tone on their side until someone called the other side. Callers to WCFR, on the other hand, began to get busy signals when they called. The pirates tried numerous loops but kept getting the same results.

It wasn't until four months after the bust that the WCFR gang learned what was happening then. "John Doe", the main WCFR announcer, learned from a telephone company employee that the FCC had secured the phone company's cooperation and was closing down the caller's half of the loop as soon as the number was announced over the air.

Such was the situation on January 31, 1976. All loops were "busied out" and John Doe

merely played records and talked with the WPCR chief engineer, Perry - - -. They were joined by another pirate operator of some renown, "Artie Media." Artie took over announcing chores and decided he had to have some phone calls for the show. During a record, he convinced Perry to give out his own personal phone number over the air. Perry finally agreed (partially because the phone number was listed in his brother's name) and John Doe was aghast. "I wanted to strangle them, believe me!" John Doe wrote in a letter to me. It turned out to be the fatal mistake for WPCR. The FCC was monitoring and realized that the number was not a loop. All previous numbers were those used by a telephone company building in the Gramacy Park section of Manhattan. This new one was definitely different. It was also traceable.

John Doe, Perry - - -, and "Michael Cypher" were in the WPCR studios on the evening of 6 February 1976. Michael was performing some needed repairs to the WPCR transmitter, "Karen Anne." John Doe remarked to Michael Cypher that he hoped that he wouldn't be able to fix the transmitter since he really didn't feel like going on the air that evening. It was to be a prophetic statement. The FCC had traced the number and knew the address, building, and apartment number where WPCR was located. They were planning to shut down the station if it came on the air that evening.

At 11:30 PM WPCR came back on the air and conducted the same type of show it had for several weeks previous. But at 1:45 AM there was a knock at the door. Two men flashed credentials and asked for Perry's brother, in whose name the apartment and telephone were listed. One of the men looked at John Doe and said simply, "You can turn that off now." And so WPCR left the air in the middle of "These Eyes" by the Guess Who. FCC agents John Schedetsky and Alexander Zimney had accomplished their mission.

Or had they? WPCR returned to the air on November 25, 1977 on 1620 kHz for what they termed their "Swan song." After that, the station changed calls to WDBX and was soon joined by WGOR, a station owned by a couple of former WPCR associates who escaped the FCC bust in 1976. The saga of these pirates since then is well known to NASWA members. Many more chapters will likely be written in the months and years to come, however. "As long as there is radio there will be pirates" is the closing line of every letter I have received from the New York pirates. I for one will not argue with that claim!

NOTICE: Broadcasting with out a FCC license is illegal in the United States. NASWA does not condone violation of the laws of our country. Those who engage in pirate radio broadcasting are liable for heavy fines and possible imprisonment. When caught, these individuals may find that their criminal record will hinder them from getting future government licenses or good jobs. The FCC is quite capable of finding any continuing broadcast operation.

Shortwave Center will publish articles about pirate radio broadcasting as long as they are factual and do not condone or encourage this illegal activity. As with all activities in violation of the laws of our country, the perpetrator must bear responsibility for his actions. (JAL)

Harry Helms, the author of the above article also wrote "Piracy on the Airwaves" in the November 1977 issue of Popular Electronics. This is noted for your additional reading.

Drake R4C

COMPARISON TEST: DRAKE R-4C vs. MACKAY MARINE 3010-C

by Kenneth M. Duke, Columbus OH

The major objective of this article is to review the features and performance of the Drake R-4C receiver. The R-4C, a current model, is widely available and is an alternative to Drake's SPR-4. A secondary objective is to compare the R-4C to a commercial receiver, the ITT Mackay Marine 3010-C. The Drake retails for \$700. When new several years ago, the 3010-C cost about \$1600. What does the commercial receiver have that results in a cost more than twice that of the Drake? Are these extras useful to the DXer? Are they worth the cost? This comparison may help provide answers to these questions.

SPECIFICATIONS:

Item	R-4C	3010
Fqy. coverage	1.5-30 MHz	0.07-30 MHz
Sensitivity, SSB	0.5 uV 10 dB S+N/N	1.5 uV 6 dB S+N/N
Selectivity	6 kHz @ 6 dB, 10 kHz @ 60 dB*	6 kHz @ 6 dB, 20 kHz @ 60 dB
	4 kHz @ 6 dB, 7.5 kHz @ 60 dB*	3.1 kHz @ 6 dB, 6.5 kHz @ 60 dB
	2.4 kHz @ 6 dB, 4.2 kHz @ 60 dB	2.1 kHz @ 6 dB, 5.5 kHz @ 60 dB*
	1.5 kHz @ 6 dB, 3.0 kHz @ 60 dB*	1.5 kHz @ 6 dB, 4 kHz @ 60 dB*

*Optional at extra cost

Stability	+ 100 Hz after warmup	"Highly stable"
Calibration	+ 1 kHz	+ 2 kHz
Image rejection	60 dB or better	80 dB or better
AGC	3 dB change over 100 dB	8 dB change over 60 dB
Audio output	2 watts, 5% THD	1 watt, 10% THD
Power consumption	60 watts	95 watts
Dimensions, inches	5.5H, 10.7W, 12.25D	9.5H, 19W, 16D
Weight, lbs	17	45

LISTENING OBSERVATIONS:

Drake R4-C - The R4-C is designed for amateur radio operators and SSB/CW reception, but it has sufficient versatility to make it an effective DX machine on the shortwave bands. It will cover any frequency between 1.5 and 30 MHz using the appropriate crystal (5-6 MHz not recommended although much of this range is quite usable). It comes with 5 ham band crystals and sockets for 15 more. The tuning range of the VFO is claimed to be 500 kHz, but in reality is more like 800 kHz. Mine has 170 kHz overtravel on the upper end and 135 kHz on the lower end. Adding 15 crystals enables the Drake to cover the shortwave bands 120 m to 11 m with room for 5 additional 500 kHz bands. Drake builds the FS-4 frequency synthesizer which substitutes for separate crystals and provides coverage of all frequencies from 1.5 to 30 MHz making the R4-C general coverage. Sensitivity is quite good and weak DX stations can be copied well enough to be identified. Selectivity is outstanding. The use of the sharp 2.4 or 1.5 kHz filters requires exalted carrier mode of operation using the BFO and product detector. In this mode the Pass-band Tuning control permits easy selection of the upper or lower sideband of the AM signal giving good intelligibility for voice. The 1.5 kHz filter is noticeably narrower than the 2.4 filter and is very useful in noisy, crowded bands. Tuning in this mode is critical if good intelligibility is to be achieved. The 4 and 6 kHz filters receive music better, but they also pass more unwanted noise and adjacent signals. A notch filter further aids selectivity enabling annoying heterodymes within the receiver passband to be filtered out. Tuning the notch filter must be done very carefully if it is to be effective. The only receiver I know of with better selectivity is the R-390A. The Drake is very stable with a small amount of drift during warmup and almost none thereafter. The calibration easily meets the "+ 1 kHz when calibrated at the nearest 100 kHz point" claim. For my receiver, setting the VFO at 0 kHz will result in no more than a 600 Hz error anywhere in the normal 500 kHz range of the VFO. If the whole 800 kHz range of the VFO is used, the error increases to + 2 kHz, - 1 kHz. Calibration marks on the dial are every 1 kHz and fractions of a kHz can be easily read. The dial is marked from 0-500 kHz so on odd numbered bands (2.5, 3.5, etc.), 500 must be added to the dial reading to get the correct frequency. This can result in an error in frequency logging unless you remember to do it.

Image rejection is excellent and images have not been detected in the R-4C. The Automatic Gain Control (AGC) is used to maintain reasonably uniform gain and thus, uniform audio output over a wide variety of input signal strengths. The R-4C claims excellent AGC performance. In practice small changes in input signal (2-3 units on the meter) are quite audible. The R-4C not only lets you see on the S-meter fluctuations in signal strength, it lets you hear them. The AGC is variable using a front panel switch and the slow position does aid in smoothing the fluctuations. Audio output is claimed to be of moderate power and distortion. On all but strong S-9+ signals the hiss of atmospheric or background noise is almost always present. Frequency response is limited purposely to improve voice reception and this causes music to be reproduced poorly. The December 1977 Ham Radio recommends some simple changes to improve the audio. The R-4C uses 6 tubes and 15 transistors in a hybrid circuit. Tubes are used to improve the receiver's strong signal handling capability and this seems to have been successful. The R-4C handles the super strong signals on the 49 m band very well. Tubes should be replaced periodically, but this can be done for about \$13. The Drake is small and lightweight, making placement in the shack or shipping easy.

ITT Mackay Marine 3010-C - This receiver was designed and built in the mid to late 1960's for commercial shipboard operation. This model is no longer made and rarely is available used. The 3010 is a general coverage receiver tuning from 70 kHz to 30 MHz in 15 bands of 2 MHz each. No additional crystals, preselector, or synthesizer are needed to achieve this wide coverage. Sensitivity is excellent, and better than the R-4C on frequencies up to about 15 MHz. Signals barely audible on the Drake can be clearly heard on the 3010. Sensitivity is so good on some occasions that RF and IF attenuation have to be used to prevent overloading. Above 15 MHz, it is equal or less sensitive than the R4-C. Selectivity is very good using a crystal lattice filter for the 6 kHz bandwidth and Collins mechanical filters for the narrower bandwidths. These filters do not have the very sharp, steep skirts, or ultimate rejection, that characterize the R-4C, but are still better than most other receivers. The 3010 filters are independent of the mode of operation and can be used either in the AM or SSB/CW mode which gives the user more flexibility than the R-4C. In the SSB/CW mode of the 3010, it has selectable upper or lower sideband as well as a fully

variable BFO permitting a form of passband tuning. However, the R-4C passband tune control is easier to use. The 3010 has no notch filter.

The 3010 is quite stable with only a small amount of warmup drift. Calibration is not as good as the Drake, varying from - 4 kHz to + 1 kHz over its 2 MHz VFO tuning range when set as a single point in that range. Since its VFO tuning range is 4 times greater than the Drake, this error is quite reasonable. Within the narrower range of a shortwave band (about 400 kHz or less), VFO accuracy is about ± 2 kHz. Calibration marks on the dial are every 2 kHz enabling visual readout to about 1 kHz which is less accurate than the R-4C. The dial marks are large and easily read. Frequency readout is direct requiring no addition as in the R-4C. Image rejection is excellent. The AGC is superior to the Drake. The audio output is maintained over a wide range of input signal strengths. Fluctuation in signal strength, while visible on the RF meter, is not nearly so audible as in the R-4C. The audio quality on the 3010 is far superior to the R-4C. Power and frequency response are good giving excellent intelligibility on both voice and music even when using the narrow 2.1 kHz filter on weak signals. This superior audio is likely a function of the sensitivity, audio amplifier circuitry, AGC, AM detector, and mechanical filters. The 3010 uses 17 tubes with solid state devices used in the first mixer and rectifier. Some of the tubes are very expensive commercial types and it costs about \$60 to completely retube it. However, tubes not directly in the signal path would rarely need changing.

Despite its greater sensitivity, the use of tubes, a double balanced mixer, and bandpass filters, the 3010 is about equal to the R-4C in overload resistance. The 3010 is large and heavy and requires considerable space when compared to the Drake.

CONCLUSIONS:

Both receivers have their bad, good, and superior points. The high cost of the 3010 is a function of limited production and considerable care in design, materials, and construction, which enabled it to be used in the shipboard environment characterized by corrosion, vibration, strong signals, continuous usage, and perhaps life or death situations when the signal must get through. For example, the chassis is a huge $\frac{1}{4}$ inch aluminum casting as compared to thin stamped steel on the Drake. Bandpass filters are used throughout the 3010 to eliminate spurious signals that might be generated by the receiver's oscillators. The RF tube is a special commercial grade tube costing about \$18 and is operated well below its limits for long life and reliability. A double balanced mixer is used to reduce spurious response and overload. This extra rugged construction and some of the other features are of dubious value to private users and thus, I believe it is difficult for most DXers to justify the high price of a new commercial receiver. However, a used commercial receiver can be a good deal and useful as a DX tool if the price is reasonable and its condition excellent.

If I had to pick the better receiver for my use, I would choose the 3010 very slightly over the R-4C. In spite of the fact that claimed specifications are not as good, the 3010 equals or outperforms the Drake in most areas, especially in the reception of AM signals, and offers more operating flexibility. The Drake is superior in the SSB mode. Together they make an excellent team to fight the crowded, noisy SW bands for those weak DX stations, to listen to exotic music from a country on the other side of the earth, to listen to aircraft weather on the very low frequencies, or to eavesdrop on the amateur bands. I would really not like to have to choose between the two.

Voice of Voyager

THE VOICE OF THE VOYAGER

by A. Nony Mouse, via Greg Ravenhorst

NASWA Distributing Editor Greg Ravenhorst received the following unsigned letter in mid-March. It explains how the bootleg radio station "Voice of the Voyager" came into being. The "Voice" has been heard on weekends from the first of the year. Reports of mid-May reception appear in UPDATE in the June FRENDX. The "Voice" is apparently using phone loops like the New York pirates mentioned in an earlier article. The "Voice" is apparently located in the upper mid-west, possibly in northern Michigan. The "Voice of the Voyager" has been using 5850 kHz.

"The Voice of the Voyager is the result of a twisted dream that took form in the minds of two SWL's about two years ago. The original plan was for a station on 1610 kHz AM using the call letters WRMI, but after the practice of bootleg AM became so popular, we decided to go for it all and tune up on the shortwave bands."

"Equipment was only a minor problem, because by chance I happened to run across a transmitter that is a bootleggers dream. The old rig beckoned to me on the back table of an electronics store. On closer examination, I found this to be more than your average ham rig. When I looked at the range dial, the common 80-40-20-15-10, etc. was not seen. Instead it said 1.7-31.0 mcs. What a find! The transmitter turned out to be a 100 watt output transmitter (AM) that could be tuned to any frequency in the HF shortwave bands."

"After getting the 100 pound monster home, the tuning procedure turned out to be nothing less than a major feat of engineering! But we did manage to tune it up once before the short developed in the high voltage power supply that silenced this bootleg radio voice for almost a year."

"But, this fall new inspiration was injected into our bootlegging minds, and I set about to correct the many ailments of our idle transmitter. After rewiring a capacitor and replacing the final amplifying tube, we threw the send switch and the rig stayed on!"

"On the 25th of December 1977, a weak, humfilled voice feably left our antenna and radiated a signal for only a few miles around our transmitting location, but we had made the big jump, we were on the air!"

"With the next broadcast from the Voice of the Voyager, the hum disappeared, but still there was little push behind the Voice. Then one day we put up a new antenna, a half wave dipole cut for 5850 kHz. Then things started to happen! Our signal has increased every broadcast since that antenna went up and we hope someday that our signal may even leave the state in which we are located."

"Our studio equipment is very simple. We employ three tape recorders and a hand held, what I think is a carbon-type microphone. We have several clocks that give us both world and local time. Our transmissions are not all done live; our first broadcasts were tapes, but we like the live version much more."

"Our station has come a long way since that first dream and we hope it will go a lot further than our present dreams hold. I hope that you enjoyed this little information I have given you, and I also hope that you understand our station. And so my firends, until we meet again, may the spirit of the Voyager be with you always!"

EDITORS NOTE: Again we want to point out that the above described activity is not permitted by United States Law. We urge all NASWA members to uphold the law for their own protection.-JAL

DX Hotline

PROPOSAL FOR A DX HOTLINE

by Dan Sheedy, Box 31, Encinitas CA 92024

DXers! Would you be interested in a telephone DX HOTLINE??? It would work something like this . . . during the week, at specified times, call in your hot DX tips, it will be recorded, edited, and rebroadcast on an endless tape loop . . . on Saturday, Sunday, or some mutually agreed upon day . . . just call the HOTLINE number and get 2-3 minutes of the week's best DX.

The format has to be set up, but before going ahead and purchasing the gear, about \$150, it would be nice to get input from active DXers who would contribute and use this service to determine whether or not it would be helpful, feasible, and all that . . . please send all questions, comments, ideas (I know DXers get ideas, I had one once, a long time ago) to Dan Sheedy, Box 31, Encinitas, CA 92024, or Radio West, 3417 Purer Road, Escondido, CA 92025. Here is a chance to get recent DX tips for only the cost of a telephone call. What do you think DXers???

RF-4800

MORE ON THE PANASONIC RF-4800

OBSERVATIONS AND COMPARISON WITH DRAKE SPR-4

by Larry Brookwell, San Diego, CA

The new Panasonic RF-4800, like it's smaller brother, the RF-2800, is a very impressive receiver. It is a full coverage communications receiver with a total of 10 bands. Seven shortwave bands, 3-31 MHz, are premixed double hetrodyne with a digital read-out. The MW and FM bands, and a shortwave band of 1.5-3 MHz are not included in the digital readout. The panel contains twentyone knobs, switches, and jacks, allowing for a very satisfactory controlability. Other goodies include a two-speed main tuning knob, separate antenna connections for SW, MW, and FM, three power sources, enclosed "D" cells, jack for cigar lighter current from the car or RV, and a built in power system for 115 V AC 60 Hz.

I will not list the impressive specifications, but will confine my observations to results in comparison with a Drake SPR-4 on the same antenna (50' inverted "L").

Selectivity is only slightly inferior to the Drake, and the RF-4800 will separate strong signals 5 kHz apart if the "AM RF Gain" control is kept at a minimum for a readable signal. It is best to use this RF control at all times when working SW. The Band Width switch is best left on the "Narrow" position. Only a very slight gain in clarity is possible on the "Wide" setting. At first impression, the RF-4800 seems to be broad in its

selectivity, but is found to be excellent when worked on a crowded band, and the RF gain control is utilized.

Sensitivity is tops, equal to the SFR-4 on the same antenna. The Antenna Trim control, however, seems to function only on an inferior antenna or when tuning a very weak signal.

Accurate read-out on the digital display is best accomplished by nulling the signal with the "Mode" control on CW/SSB, but the "BFO Pitch" control must be set at the center (middle) position.

Tone and clarity (2 tone controls) is superior to the Drake. One can reduce the "Bass" for voice clarity, and the "Treble" to reduce background hiss.

I have no observations to make regarding the MW and FM as they are not my ball of wax. they appear to be adequate, and are certainly nice to have. The "unamplified" 1.5 to 3 MHz SW band is unfortunate, but is probably one reason why the receiver is \$200 cheaper than the Drake. However, this band is seldom wanted or used.

My impression is that the RF-4800 is an excellent receiver, but that it takes a bit of "getting used to".

HELPING HAND: I ended up with two of these receivers. I will sell one for \$425 w/UPS paid). Larry Brookwell, 1826 Cypress, San Diego, CA 92154. Tel. 714-429-9728.

THE PANASONIC RF-4800 10 BAND RECEIVER

by Albert L. Garrou, Woodridge, IL

The Panasonic RF-4800 was featured in the March 1978 issue of FRENDX as a new receiver yet to hit the market in the USA. I was fortunate to have bought one of the first ones to be sold in the Chicago area and would like to share some of my first observations. The RF-4800 has a digital readout for frequencies between 2.8 and 31.2 MHz. The \$200 difference between this receiver and the RF-2800 and others in this price range is the synthesized phase-lock loop design. That means that once set at a reference frequency, the readout will be accurate to within ± 1 kHz on all bands. I tested the accuracy of the readout first with WWV and then with a crystal calibrator. I found few errors beyond ± 1 kHz on any band using the digital display. Unfortunately some images appear across bands which is unusual for a dual conversion design. The SW tuning knob pushes in for fast tuning (1:12) and pulls out for fine tuning (1:114). The five digit display to within 1 kHz matches the fine tuning capability and drift stability properly. The generous overlap of about 200 kHz between bands is convenient. An antenna trimmer and RF gain control are provided. The BFO has a variable pitch control. The bandwidth filter switch was described in the March FRENDX and proved more effective than I expected. A notch filter is missing, but the separate bass and treble controls help some. The sensitivity of the receiver is excellent.

The 1.6-3.0 MHz SW band and the AM and FM bands are disappointing. None of the precision tuning advantages of the other bands are available here. While it would not be feasible to provide the same accurate design for these bands, I for one would be willing to pay a little more for some simple improvements. The circuit designs for these bands are conventional and unimpressive. A separate tuning knob (ratio 1-12) is used and has no fine tuning capability. The dial calibrations could stand a little attention and the SW-1 band has nothing but two digits for readout (i.e. X.X MHz). The AM band has calibration markers that are not obvious at first and are not aligned properly. I am still unsure whether the little marks below the FM band are intended to be used; if they are, they aren't aligned properly and don't correspond with the numbers very well. These minor flaws are annoying, but since I have access to seven other AM/FM radios in my household, they don't bother me too much. Radio marketing people should realize that specialty receivers do not have to have FM/AM to sell.

The overall performance of the RF-4800 is excellent. The speaker gives a good sound for easy listening and is flexible enough with tone adjustment to be effective for DX. Its three-way power system and semi-light weight make it usable away from the shack. With this receiver, I can now retire my Haliocrafters SX-71 in its 30th year and two generations of heavy use. We'll see if "Make in Japan" can stand up to the test of time whereupon I once again will progress from the dark ages to a state-of-the-art receiver.

Pakistan QSL

TRIALS, TRIBULATIONS, AND AN ELUSIVE QSL

by Edward J. Insinger, N. Plainfield, NJ

The evening of March 29, 1971 was a good one for DX'ing. At 0145 GMT, I was tuned to Radio Australia on 15.320 MHz. The prospect of good DX tempted me to continue my station searching. I moved up to 15.380 MHz at 0210 GMT and heard a voice say: "This is Radio Pakistan broadcasting on the morning of Tuesday . . ." I listened ever more carefully, for this was the first time I had logged Pakistan, and was prepared to make every effort to copy down all the details I could. Then I would be able to forward a reception report and request for a QSL.

Logging Pakistan on March 29, 1971 was exciting. Five days earlier, the President of Pakistan ordered the national army to enter Bangladesh and proceed to crush the separatist movement of the Bengali forces. The situation was reported in detail over Radio Pakistan. It was interesting to receive a news update from the country entangled in the essence of the news being reported and discussed.

By 0220 GMT, I had sufficient details to warrant a complete reception report. The next day, I mailed my letter to Radio Pakistan, Broadcast House, Karachi, along with two 15-cent International Reply Coupons.

The mail came on April 25, with no response from Pakistan yet. I realized it would take time. At 1520 GMT, I tuned to 17.910 MHz and found a news report in progress. At 1525 GMT, a male announcer said: "You are tuned to Radio Pakistan." I listened carefully and decided to copy some details for a follow-up report. By 1547 GMT, reception had deteriorated, but I had enough information to forward a second letter to Radio Pakistan. My address was the same as the first, with one addition: "WEST" was written before Pakistan. I mailed my report the same day, again enclosing two IRC's. Now the possibility of receiving two QSL's was real -- even though just one would be sufficient to please me.

1972 brought a brand new year of DX'ing, but January came and went without a response from Pakistan. On February 3, 1972 my morning DX included news about Gunnar Jarring, Egyptian President Anwar Sadat, the Paris Peace Talks, and the Eleventh Winter Olympics. A female announcer ended the news with an identification for Radio Pakistan, which I carefully recorded in my log book under 1310 GMT on 11705 kHz. Thus my third attempt to secure a QSL card was under way. I had received a tip previous to this logging that I might try this address, which I did: Radio Pakistan, 81-A, Satellite Town, Rawalpindi, West Pakistan. I certainly felt it was worth a try -- enough to cause me to enclose three IRC's. Perhaps this would prove successful. I felt hopeful, reasoning that my first two letters may have gone astray in Karachi, while the QSL's were anxiously awaiting me in Rawalpindi. Why not? Only one thing still left me uneasy: veteran ace DX'er Al Kiblack advised me that Pakistan was an erratic QSL'er and responses were few and far between. I felt a little uncertain.

My concerns proved more correct as time passed. The spring brought beautiful flowers and budding trees, but no QSL from Pakistan. Still, I felt compelled to continue my search. Too many hours had already been spent on Pakistan to simply give up my attempts. I plodded onward.

The afternoon of June 18, 1972 brought with it good signals from the near East region. At 2000 GMT, I tuned in to 11885 kHz for news and commentary from Pakistan. By this time I was well enough acquainted with Radio Pakistan to begin listening to program content. The news was followed by an

interesting commentary dealing with the developmental planning of Pakistan, in terms of this underdeveloped country's land and its people. There was hope of extremes, from economic prosperity to the banishment of widespread poverty. (The entire undertaking was termed a "project.") My interest was further aroused at 2010 GMT, when mention of United States listeners was heard! Hope had sprung eternal and I was eager to again send them a detailed reception report. In order to enhance my report, I tuned in again the next day at 1957 GMT, to catch their unusual interval signal. I was careful to observe reception conditions, with special attention given to existing QRM, the degree of fading and how this affected overall signal quality. The ensuing reception report was complete in every way, with the addition of four U. S. Peace Corps mint stamps and three more IRC's. I again chose the Rawalpindi address for the front of the red, white and blue bordered air mail envelope.

1972 did not pass without my sending one more reception report, from a transmission heard on October 26, at 1330 GMT, way up in the 13 meter band. This program was part of the General Overseas Service beamed to the Middle East in slow speed English. The channel was interference-free, providing good reception conditions on my SX-100 receiver. The signal disappeared at 1345, following the news. I decided to again try mint Pakistan stamps affixed to a SASE, but did not include any other enclosures. My records do not list an address used for this report. The remainder of 1972 passed without a word from Pakistan.

On June 7, 1973, I returned to the bands with yet another reception report in mind. I decided to continue my seemingly endless plight for a response from Radio Pakistan. This time the frequency was 11672 kHz at 2000 GMT. Whatever displeasure I may have felt from their lack of response was at least temporarily overcome by very beautiful and exotic music, aired at 2013 GMT. A combination of instruments and vocals like nothing ever heard before, or perhaps again, filled the airwaves. It was also a reminder to me that music knows no boundaries or particular races; it can please the least, the most and everyone else in between. (I was careful to mention the musical program in my report, and my commentary reached well beyond the immediate hopes of such small things as QSL's.) I addressed my letter to Chief Engineer S. A. Aziz at the previously mentioned Rawalpindi location, along with a SASE having mint Pakistani stamps affixed to the upper right hand corner. I also enclosed a block of National Parks Centennial commemoratives totalling an unusual 8 cents, depicting the Cape Hatteras National Seashore. At the same time, I also decided to enlist the help of the Embassy of Pakistan in Washington, D. C. So I sent them a zerox copy of the abovementioned report, explaining the difficulty I was having obtaining a response from Radio Pakistan.

On July 19, 1973, I received a letter from Miss Nasra Hassan, Assistant Information Officer of the Embassy, stating that it was indeed unfortunate that I had not received any responses from Radio Pakistan. Miss Hassan promised to write to the Director General of the Pakistan Broadcasting Corporation and let me know of her findings. Unfortunately, I never heard from the Embassy or Miss Hassan again. However, my letter to the Embassy brought a monthly newsletter entitled Pakistan Affairs. Once again, my efforts proved fruitless.

The years of 1974, 1975 and 1976 were quiet ones for me DX-wise, and without a QSL card from Pakistan mailbox-wise.

Reactivated like an old frequency or country, I logged Pakistan once again on the morning of November 12, 1977 on 15520 kHz, in Urdu to the Middle East. A clear ID at 1330 led me to copy some details from a language I did not understand. Words and sounds seemed very strange and most unusual. I listened intently, picking out voices and music and words in the news. By 1400

GMT, I had a brief outline of details, along with an urge to try a report once again. Larry Magne provided me with the name of a person in the Engineering Department to whom I could forward my report, Mr. M. Sarwar Shaikh. As per the 1977 WRH, I addressed it to P. O. Box 443, Karachi, Pakistan, enclosing two IRC's.

A breakthrough occurred suddenly and unexpectedly on April 8, 1978, seven years since my first logging of Pakistan! Peeking inside my brass colored mailbox, I could faintly see the edge of a postcard. I opened the lock and removed the postcard, face side up, which revealed a color photograph of an unfamiliar looking stone fortress. I was puzzled by the scene. Upon turning the card over, my eyes immediately caught glimpse of the words Pakistan Broadcasting Corporation, printed in the upper left hand corner. Below this read the following: "Thank you for listening to our Service. We confirm your report as correct." The date listed was incorrect and no frequency was given for my reception confirmation. I was happy to have received a response, despite the scarcity and quality of information provided. Now, at last, I was able to speak of a QSL card from Pakistan. I could also place an overdue check-mark next to Pakistan on my country list.

Now I have a letter to write, for which I expect to receive no response. This time, I will not report reception or request a QSL. My only intention is to thank the Pakistan Broadcasting Corporation for their response. Perhaps some day I will write again. There remains the possibility of securing a full data verification, which seems to be an achievable goal. It has been said that the first time around is the hardest.

SW-4A

THE DRAKE SW-4A

by Steve Kennedy, Immokalee, FL

The R. L. Drake SW-4A receiver is possibly the most misunderstood receivers in use today. It sold new at \$335.00, and will sell used at prices ranging from \$225.00 to \$125 in fair to poor shape. The 4A features direct dial tuning, simple operation and employs a 6 tube 7 transistor circuit.

Modern receivers being made today have shown trends toward direct or digital dial readout. The 4A was the first popular receiver designed for the SWL/DXer to use a direct dial feature, when it was introduced in 1966. It is possible to read out frequencies within 2 kHz when the dial skirt is calibrated to a known frequency.

The main disadvantage of the SW-4A is its selectivity. A well aligned receiver will have a selectivity of 5 kHz at -6 dB, and 12 kHz at 60 dB, not quite enough to cut through the QRM on the 49 metre band, but still wide enough to provide decent audio. There are a couple of solutions which will help on the selectivity problem. One is to purchase an active audio filter and connect it to the receiver's audio circuits. The other is to install a mechanical filter. The only problem with a mechanical filter is that it will introduce some loss of gain, and a small amplifier stage must be installed to bring it back up to par. Collins Radio has a filter which will have only a 6 dB loss in gain, not much to make any difference.

Sensitivity of the SW-4A is pretty good on the 49 through 11 metre bands, but if you are into DXing the flea powered stations, I would recommend the use of a tunable pre-amplifier. The extra 15-20 dB of gain will do wonders in sensitivity. If you like to use the set for listening to MW and LW stations, either a loop antenna or an antenna tuner would work wonders. Don't forget to add a tape output jack for taping that DX!

Maintenance of this receiver is quite simple in comparison to the sets using the complex Wadley-loop circuits. Every receiver should be given an annual touch-up in the RF and IF circuits to maintain top performance. The manual supplied with the SW-4A gives complete and detailed alignment and service data. When it comes time to retube the set, I recommend Amperex tubes. This make seems to have the best noise figure of the tubes I have tried.

Despite all of its shortcomings, a little added here and there can make the SW-4A a pretty decent DX workhorse. In the 2½ years I have had mine, I have heard over 130 countries, and this is using only an Ameco tunable preamp! It is and will remain my main receiver,

eventhough I plan to add a general coverage receiver as backup. The SW-4A must be a pretty good receiver. HCJB uses a couple of them as off-air monitors! If you own one now, keep it and try some of the modifications outlined in this article. If you see one for sale, buy it and try one out . . the SW-4A is still a good DX getter. . even if you have one of the gold-plated specials.

BOOK REVIEW: The Handbook of Solar Flare Monitoring & Propagation Forecasting
by Carl M. Chernan
TAB Books, #1005, \$6.95

Fortunately, it's rare that a publisher goes to the trouble of printing a book that's so badly out-of-date and replete with errors; but this book is the exception to the rule. Why TAB bothered is a mystery.

It would take several pages in this bulletin to itemize the more obvious errors (e.g., the CRPL hasn't existed for 10+ years, Drake DSR-2 receivers are not \$500 on the surplus market, W1KK hasn't operated on 9570 kHz in 40 years, etc.) that deftly illustrate the author's lack of knowledge. Possibly the worse part of this book relates to the "Propagation Forecasting" in the title--here the author is nearly 12 years behind the times and skips over the whole subject in a matter of 3 or 4 pages. He also ignores all satellite work and monitoring, recent (ie, within the past 5 years) work on sunspot theories and never mentions solar flux measurements.

About 80% of this book is devoted to what I am supposed to call electronics construction projects, but from the view of the ex-editor of Pop'tronics--they're hopeless. These projects are nothing but a hodge-podge of virtually unworkable ideas calling for components no longer available, but simultaneously warning against making substitutions! A fascinating part of the construction plans is how to rewind a power transformer from a defunct TV receiver!

Although this is a subject that needs some good background text, this book leaves us continuing the search. There are better ways of spending \$6.95.

reviewed by O.P. Ferrell, editor Pop'tronics 1955-71

LV de Nahuala

LA VOZ DE NAHUALA

by Gerry Bishop, Christiana, PA

Tuning across the 90 metre band, you're likely to hear a variety of exotic DX signals amidst and around the non-broadcast stations, and if you set your receiver to 3360 kHz, it could be that good fortune is with you, and you'll hear TGVN, La Voz de Nahuala, from Guatemala. TGVN is an educational/cultural station, and uses one kW of power to reach the audience. This station employs the class of the air method hoping to aid in the campaign to eliminate illiteracy among those in the target area. Their "classes" are conducted from March to September, the regular school term in Guatemala.

TGVN has a history of being friendly towards the QSL hunter, as a Spanish report and mint stamps will probably bring back a card in about three months. Or, you might address your report directly to Sr. Juan Fidel Leppe Juárez, and send him some commemorative stamps or a few local postcards, and he will be more than happy to send you a QSL, and a pennant, if you request one. This colorful souvenir is a must for the serious pennant collector, and again, if free for the asking.

Sr. Leppe is in the programming department, so a comment on how you enjoyed the program might be in order. Most likely you will hear TGVN in the local evening, with local music featured. It is wern't for a ute on each side of 3360, making reception strained, La Voz de Nahuala might be the most popular broadcaster on the band.

If you do write, don't forget to mention that you read about them in FRENDX, and that you are a member of NASWA. Say thanks too.

Thanks again to all our contributors. Without your support SWC would be so many blank pages. 73s till next month.

jal

Listeners NOTEBOOK

JULY 1978



• Editor: Glenn Hauser, WUOT, U-Tenn.,
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ENGLISH SCHEDULES U S S R R. Moscow N/m svc anticipates these monthly changes: until 31/7; 2300-0100 on 15425 15245 15100 12050 12030 11960 11770 11750 11735 11720 9700 9685 9530. 0300-0400 on 11960 11770 11750 11720 9700 9685 9530. 1/8 to 2/9; 2300-0100 as above. 0100-0300 on 15425 15245 15100 12050 12030 11960 11750 11735 11720 9700 9685 9665 9530 7290. 0300-0400 on 11960 11750 11720 9700 9685 9665 9530 7290. From 3/9 into October; 2300-0100 on 15425 15245 15100 12050 12030 11960 11750 11735 9685 9665 9600 9530. 0100-0300 on 15425 15245 15100 12050 12030 11750 11735 9700 9685 9665 9600 7290 7250. 0300-0400 on 9700 9685 9665 9600 9530 7290 7250. Pacific Coast Service: till 2/9; 0330-0430 15425 15405 15180 15100 12050 12030 9710. 0430-0730 15405 15180 15100 12050 12030 12000 11720 9710. from 3/9; 0330-0430 15180 15100 12050 12030 12000 11720 9710. 0430-0730 15100 12030 12000 11720 9730 9710 9610. 0630-0730 on 11750. (via Mac Leonhardt, IN) Some freqs in -0 may be 5 kHz higher; Moscow madness(gh) R. Kiev to Europe 2030-2100 on 9630 9775 11830 (as announced 20/5 via Lenny Saaf, IL) to NAm at 0030-0100 on 15405 15180 11870 11790 11690 SSB-10623 9800 9600. 0300-0330 on 17720 SSB-16190 15470 15425 12060 12050 12040 12030 11780 9800 9780 9775 9635 9600 9530 7110 (BEC MS Apr-May) R. Vilnius at 2300-2330 also on SSB-10623, but not on 15180 15405 (BECMS) Voice of Armenia 0325-0330 Sun/Wed/Thu/Sat on 15405 15180 15100 11870. R. Tashkent intended for SAs but often audible over the pole in NAm: 1200-1230 & 1400-1430 on 15460 15115 11925 and 11730 (BEC MS Apr-May)

U S A KGEI's only EG hour now sked with 250 kW to As at 1000 on 9580 (KGEI 6/78) AFRTS via Dixon modified J78 sked to 11805 ex-11835 from 0600 (Louis Goldstein, Ma) and 17765 running to 0600 ex-0900 (gh) WYFR J78 to Eur & Af: 1230-1600(Sun only) 15110 17785. 1600-1700 on 11805 15110 21525. 1700-1900 11805 15110 21525 and via Florida 15440 17845. 1900-2000 on 11805 15110 21525. 2000-2100 on 21525, and FL 15440 17845. 2100-2300 on 15440 17845 (FL) (World Radio-TV Handbook Newsletter, hereafter abbr'd NL)

TURKEY VOT 2130-2255 to Eu/NAS/NAm now on 3 freqs: 9515 7270 7170 (BECMS 25/5)

TANZANIA R. Tanzania new ES sked: 0330-0500 & 1530-1915 on 9680 (ex-6105) & 15435. 0900-1030(Sat & Sun to 1530) on 9750 (J. Olema-Akio & R. Ginbey, NL)

SWITZERLAND SBC J78 including many changes: Omni to Eur at 0700 1200 1315 1530 1815 on 3985 6165 9535. 0700 & 0900 on 9560 11780 15305** to FE/AuAs, 21520* SAs. Af 1100 on 17830* 21520 21630. 1530-1600 11870* 1815 on 11720** 15305 17830. ME&F 1530-1600 17830 21570**. SAs/SEAs/FE 1315-1345 15305** 15350 17830 21520*. SAm 1815 on 21585. N&CAm 1315 15140 17740-SSB. 0145 6135 9725 11715 11780-SSB 15305*. WNAm 0430 9725 11715. **500 kW, *250 kW, all others 100 or 150 kW (NL)

SWEDEN R. Sweden to NAm at 2300 on 15205 ex-11800; received excellently (Lenny Saaf, IL) Indeed it is, an excellent move taking advantage of a one-hour break in VOA use of 15205 (gh) As from 22/5. At the recommendation of the ANARC Frequency Recommendation Committee. Too many SWLers do not realize the efforts that go into finding a good frequency for those countries that want the help of the FRG (Bob Zilmer, WI) Also changed 17735 to 21660 for SAs at 1400 (Saaf) And as of 12/6 to EAs at 1230 on 17735 ex-15240 (SGDX 13/6)

SWAZILAND TWR J78 0430-0615 on 5055 9590. 0630-0835(or 1905) on 6070 11760. 1630-1900 on 3275. 1900-2035(or 2105) on 3275 5055. For Africans Sat 0415-0420 & 1845-1850 on 3200 (NL)

SEYCHELLES FEBA J78 0400-0445 11805. 0700-0800 15160. 1530-1630 9545 11870. (NL) 11870 is ex-11865, and may move to 11855 (Indian DX Club International - May DX Digest) As of 24/5 at 1530-1630 on 11855 ex-11870 and from 1/6 on 15325 ex-9545 (Alok Das Gupta, June IDXC1)

SAUDI ARABIA Since 6/6, EG from Jiddah on 11855 is at 1100-1250 and 1900-2200 (BBC WRC 14/6) J78 sked still shows 1000-1300 (via Tom Overcamp, SG)

ROMANIA R. Bucharest J78: Eu 1300 on 9690 11940 15250, 1930 & 2100 on 9690 11940. Af 0530 on 11830 15340 17850, 1730 on 11790 15365 17825, As 1200 on 15345 17825, 1500 on 11940 15250 17805. Pac 0645 on 11940 15225 15335 17805. Nam 0130 & 0400 on 5990 6155 9570 9690 11705 11840 11940 (NL)

RHODESIA RBC timing changes to sked in 1978 WRTVH: General Service, 0355-0615 (Sun 0500-0615) on 3395, 0600-1545 on 5012, 1530 past 2000 on 3396. African Service, in Afr langs & EG, 0325-0615 (Sun 0500-0615) on 3306, 0545-1545 on 4825, 1515 past 2000 on 3306. Several other listed freqs are not being used at present (R. Australia Japanese DX 11/6)

PHILIPPINES R. Veritas Asia J78: 0100-0200 on 15275 17710, 1400-1500 on 9590 11955 15165 (R. Australia Japanese DX 4/6)

PAKISTAN R. Pakistan: 0230-0245 21590 17830, 0240-0245 21730 17845, 0340-0345 21590 17830 15325, 0430-0445 21590 17830 15325, 0930-0935 15530 11885, 1100-1115 17665 15110, 1600-1615 17830 15520 11672, 1815-1830 11885 9460, 0030-0040 15420 11750 9645 (BBCMS 6/78)

NIGERIA VON to Waf Eaf ME Eur 0555-0835 now on 15120 11770 (BBCMS 8/6)

MONGOLIA RUB at 1220-1250 on 12070 6385, 1715 on new 8890 9575 (BBC WRC 26/5)

MAURITANIA Nouakchott on 4845 noted with language lessons for EG speaking tourists at 1900-1915, then ads for tourists to 1929 (Rikard Johansson, aboard Okeanos, NL)

MALTA "Malta Calling" since 16/5 is on 9530 Sats at 1845 (SCDX 30/5) On 9535 (Allen Dean, June WDXG Contact) R. Mediterra removed 9530 by 5980 at 2015-2130, including some IBRA EG (Wolfgang Büschel, GFR, 13/6) IBRA EG is on Sun only, 2015-2115, first obs 28/5 on new 5980 ex-5990 (Bob Padula, Victoria)

KOREA SOUTH (Cf June LN-2) Effective 5/6, some new freqs for R. Korea: 0630 Eu 15205, 1130 & 1330 Eu 9710. (Bob Padula, Victoria) More, LN-14

KOREA NORTH Voice of The Revolutionary Party for Reunification now has EG at 2230-2300 on 4597, 1400-1430 on 4597 and 4120 (SCDX 20/6)

INDIA AIR J78 GOS: B&SEAs 2245-0115 on 3905 7215 9535 11770 15110, 1330-1500 on 11810 & 15335, NEAs 2245-0115 on 9630 11815 11850, 1000-1100 on 11725 15190 17387, ANZ 1000-1100 on 11775 15205 17705, 2045-2230 on 9535 9912 11740, Eaf 1745-1945 on 9730 15125, W&NAF 1945-2045 on 9755 11880, UK & Eur 1745-2230 on 7225 9525 11620, 2000-2230 on 9912 (IDXCI)

GUINEA Voice of Revolution, Conakry noted on a Sun at 1815-1900, seems weekly program, on 15310v (J. Olema-Akko, Uganda, NL)

GUAM KTRW J78: 0000-0030 17855, 0030-0100 17830 17855, 0100-0130 17855, 0800-0900 15155, 1000-1100 15155, 1100-1130 17855, 1430-1500 on 11900 (or 11770) & 15135 (NL)

GERMANY WEST DW Voice of Germany; sites in Germany unless indicated: K-Kigali, Rwanda; S-Sackville, Canada; C-Cyclops, Malta; A-Antigua (no mention is made of Montserrat); 0130-0150 Nam 11865G 9605 9565G 9545A 6100C 6085 6075 6040A, 0130-0220 As 11945 9690 7285 7210 6065, 0430-0515 C&Eaf 11765 9765 9565K 7225K 7150, 0530-0550 WNam 9545G 6185 6135A 6100 5960, 0600-0630 Waf 17875 15275 11905 11765 9700, 0930-1030 As & AUs 21540K 17800K 17780 17715 15275 11850 9650, 1045-1115 C&Eaf 21600 21500 17875 17765 15410K 11785K, 1200-1245 Waf 21600 17875 17765K 15410K, 1715-1745 C&Eaf 17730 15135 11965K 9735K, 1720-1750 As 17825C 15405G 11785 9590 7160, 1745-1805 C&Eaf 17730 15135, 1930-2000 Waf 17780 15150 11905, 2100-2200 As & AUs 9765 7130 (DW via BBCMS 6/78)

GERMANY EAST RBI 45 min xmsns: 0100 ENAm 9730, 0230 ENAm 9730, 0330 WNam 11970 11890 11840, 0445 E&Waf 11720 9500, 0645 SEAs 21465 17815 17700, 1200 SEAs 21540 15320 15125, 1315 Gaf 17800, 1400 SEAs 21540 15125, 1530 SEAs 17700 15125, 1800 E&Waf 15250 15170 15145, 1830 Eu 9730 7300 7185 6115 6080, 2000 Waf 15390 15250, 2115 Eu 7260, (BBCMS 5/78) Except for some minor variations in target areas, matches RBI Journal "2-78" issue(gh)

ETHIOPIA Since 9/5, VORE IS on 9595/7165, the 9595 was off the air for a few days at the end of May, including EG at 1700-1800 (BBCMS 8/6) Changed to 1500-1600 on 9615 (BBCWRC 21/6)

DOMINICAN REPUBLIC R. Clarin's 1200 repeat of "This Is Santo Domingo" on 11700 was soon dropped after the May elections, and Rudy Espinal feared a further cutback, with the 2000 airing next to go. TISD at 2300 & 0300 was missing as of 16/6, replaced by Spanish programs, and R. Clarin was subsequently off the air, still off 21/6. More, LN-8 (gh)

CHILE R. Universidad de Concepción on 6135 has EG news at 1200-1230 (BBCMS 25/5) Mid-July Santiago sunrise is around 1143, so possible briefly in other darkness or dawn areas (gh) Voice of Chile IS obs: 1900-1930 on 15115 11760 11715, (BBCMS 8/6) 1900-1930 also on 17790 17715 17640 11720, 1100-1130 15175 15150 15145 15125 15115 15110 11765 11755, 1230-1300 15125 15110 11765 11755, 1430-1500 17755 11755, 1600-1630 11755 11720 (BBCMS 15/6) 0000-0030 on 17800 (BBCMS 8/6) 0000 on 17800 15175 15140, 0130 & 0300 11890 11765, 0430 &

0530 on 11765, as observed 8-12 June (Rob Harrington, CO)

CZECHOSLOVAKIA R. Prague. 0100-0200 NAm 11990 9630 9540 7345 5930. 0300-0400 same. 0730-0800 Af/FE/SAs/ANZ 21700 15395 11855. 0830-0900 (Sat/Sun 0930) Af/FE/SAs 21700 15395 11855. 1430-1500 Af/SAs/FE/Pac 21660 17840 15110 11990 9605 7345. 1530-1630 Af/SAs/FE/Eur 21660 17840 15110 11990 9605 7345 6055. 1630-1700 GB&I 7345 5930. 1730-1830 Af 21660 17840 11990 9605 7345 5930. 1900-1930 GB&I/ME 7345 7245 5930. 2000-2030 GB&I 7345 5930. 2130-2200 GB&I 6055. Interprogramme: 0745-0800, 0845-0900, 0945-1000, 1045-1100, 1145-1200; last 3 not on Sundays; all on 9505 and 6055. 0030-0100 Eu & NAm 9630 6055 (BBCMS 6/78) Agrees with sked direct from R. Prague, except shows old 21670 instead of 21660; and also at 1530, 17725 kHz, as well as at 1430 (gh)

CUBA RHC J78 changes from WRTVH 78: 2010-2130 on 17855. 2050-2150 on 9770 17750. 0100-0450 on 11930 (WRTVH NL)

COMORO ISLANDS R. Comores lists an IS in EG on 3331, 4 kW at 1600-1700 (Ed Kusalik, Ont.)

CHINA R. Peking: 0000 ENAm 17680 15520 15060 8300 6810. 0100 ENAm 17680 SSB-17490 15520 15060 12055 11455 11375 SSB-10865 8320 8240; Tirana 9780 7120. 0200 ENAm 17680 SSB-17490 15520 15060 12055 11455 10865 8240. 0300 WNA 17735 17705 17535 15305 15165 15060 12055 SSB-11630 10865 8240; Tirana 9780 7120. 0400 WNA 17735 17535 15305 15060 12055 SSB-11630 10865 7240. 0830 ANZ 17635 SSB-15480 15045 12450 11720 11600 9460 9380. 0930 same as 0830. 1200 ENAm 11625 6995 5250. 1200 SEAs 17810 SSB-15480 15270 12450 11650 9290. 1300 same. 1400 & 1500 SAs 15080 11650 9860 5295 3985, last replaced by 4020 at 1500. 1600 & 1700 E&S Af 15045 11630 9860 8345 5295 4020. 1800 SAs 12450 SSB-8660. 1930 & 2030 N&Waf 9470 8345 7620 SSB-6520. Eur 2030 & 2130 SSB-8660 7590 6860 6590 (BBCMS 5/78) In its own skeds, R. Peking lists only a portion of these freqs, the higher-powered, the higher-powered, non-feeder ones (gh)

CAMEROON The IS on 4750 & 7290 & 9745 includes Sun at 0615-0645 "Cameroon Report" in EG (J. Olema-Akio, Uganda, NL)

BANGLADESH Dacca fairly hrd in Europe, 1230-1300 on 15520 & 21683 hetting Kuwait 21685. 1815-1915 on 15402v and announced but jammed 17770. Announced 1230 freq is 21465 (Wolfgang Büschel, GFR, 13/6) Sked 0445-0515 on 15400 17890 21685. 1230-1300 on 15520 21460. 1815-1900 on 9550 11890 (A. E. M. Abdullah, Bangladesh, NL)

AFGHANISTAN (Of June LN-1) Broadcasts between 1000 and 1300 on 15390 and 15365 have been discontinued. EG now sked at 1900-1930 on 11770 (BBCMS 25/5) As from 5/6 moved to 11820 (BBCMS 8/6)

OTHER SCHEDULES

ZAIRE Bunia on 5050 has new sked: W. 0400-0600 & 1400-1800; Sat 0400-0600 & 0900-1600. Sun 0900-1400. Pgms now in EG, FR, Lingala, Swahili and 4 local dialects; EG lessons 1600-1630 (Olema-Akio, NL)

VIETNAM R. Son La since early May extended sked, now obs 1030-1400, ex 1200-, on 4770 & 6330 (Isao Ugusa, FEDXR) R. Bac Thai on 6890v ex-7100v, *1200-1400* (Ugusa, 11/6)

U S S R R. Minsk ES in Byelorussian to Eur on new sked given with QSL: 1800-1829 7250 9785; 2130-2159 6020 7340 9785 (Bob Padula, Victoria, 4/6) R. Yerevan ES Sun only at 0800-0900 on 15500 15260 15190, to Eur; in Armenian, but for FR nx 0850-0855 (BBC MS 18/5) **All-Union Radio SW usage:** First Pgm span 0200-2200: 15470 07-13, 15130 05-13, 12045 07-17, 12030 06-15, 11920 06-15, 9800 04-15, 9775 05-14, 9675 12-17, 7370 02-07 & 16-21, 7340 02-07, 5995 02-05, 5940 02-05 & 19-21, 5910 02-06, 5900 02-05. First-A, span 1900-1500: 15490 04-13, 15460 01-15. First-B, span 21-17: 15480 03-11, 15295 02-04, 12000 0130-04, 9765 02-04, 9450 21-17. First-C, span 23-19: 15275 04-16, 15170 05-13, 11950 23-16, 11750 06-17, 11700 04-17, 11630 0430-1200, 9785 04-14, 9690 00-19, 9650 00-05, 9630 00-04, 9620 15-18, 9490 23-19, 71440 23-04, 7270 00-03, 7260 00-01, 7200 00-04, 7145 01-05, 7125 23-24, 6125 00-03, 5960 23-01, 5935 00-02. Third Pgm, span 04-20: 11795 04-20, 11690 04-17, 9540 04-20. (BBCMS 5/78)

U S A KGEI, SP to LAm, 50 kW, at 2100-0400 on 15280, 0400-1600 on 9615. JP to Japan 250 kW 0800-0900 on 9555. RS to Sibir 250 kW 0900-1000 on 9555, 1200-1300 on 9530. Mandarin to Ghina 1100-1200 on 9580 (KGEI 6/78) WINB J78: 17720 1700-2000; 15185 2002-2245; 15145 2245-0330 (Bob Padula, June LDXN)

TURKEY VOT to Turks abroad now sked: 0357-0600 9665 9515 7170. 0600-1200 11800 9665 9515. 1200-1700 11800 9515. 1700-2000 9515 7270 7170. 2000-2127 9515 7270. (BBCMS 25/5) Other ES langs: 1300-1330 Urdu, 1330-1400 Persian, 1400-1500 Arabic, all on 9665, 1500-1530 Romanian, 1530-1600 Greek, 1600-1630 Bulgarian, 1630-1700 Serbo-Croat, all on 7270. 2000-2100 German, 2100-2130 French, both on 7170 (BBC MS 5/78)

SINGAPORE BBC xmsns already on air from new site here: 7180 at 2200-2400, 0015-0045, 0930-1830. 11710 0015-0045, 9725 0930-1200. 6050 1215-1445, 1500-1645, 6195 1700-1830. 11865 2200-2245. 6010 2300-2315. 6080 2315-2400. All other "Far Eastern Relay" freqs are still from Tebrau, Malaysia. However, the transfer proceeding means there may be additions or deletions to this schedule as the development work demands (BBC via NL) Some in EG (gh)

- SA'UDI ARABIA** R. Riyad DS in AR: 03-05 on 11950 9720 7220 5875. 05-06 on 11950 11870 11815 9720 7220 6085 5875. 06-07 on 11950 11870 11815 11685 9720 7220 6085 5875. 0700-0730 on 15365-not Fri 11950 11870 11685 9720 7220 6085. 0730-0800 15365-not Fri 11950-Fri 11870 11685 9720-Fri 7220-Fri 5875. 08-09 15365-not Fri 11950-Fri 11870 9720-Fri 9605 from 0830 7220-Fri 5875. 09-10 17760 11950-Fri 11870 9720-Fri 9605 7220-Fri 5875. 10-11 on 17760 11950 11870 9720 9605 7220 5875. 11-13 17760 15080 11950 11870 9720 7220 5875. 13-15 on 17760 11950 11870 9720 9605 7220 5875. 15-16 on 17760 11950 9720 9605 7220 5875. 16-18 on 17760 11950 9720 7220 6080 5875. 18-23 on 11950 11685 11775 9720 7220 6080 5875. The DS continues to be relayed in part from Jiddah on 9670 (BBCMS 8/6) This presumably monitored sked is considerably at variance with that sent by BSKSA to Overcamp SC; however, it does indicate that most frequencies are on a 295° beam, except 6000 7220 9720 11950 and 9670 are non-directional; 11870 235°. Also Holy Qu'ran is sked on 15350 80° at 15-19, and 11820 275° at 19-23 (via Overcamp, SC) Holy Qu'ran Station from Riyad: Fri 0630-1010 on 15365 to N&C Af; 15-18 to S&SEAs on 15350; 18-21 to N&C Af on 11820 (BBCMS 5/78)
- PORTUGAL** RDP Lisboa feeder in PT to Azores & Madeira at 19-01 on 6155 (Wolfgang Büschel, GFR, 13/6) ex-6185, or typo? (gh) **IBRA** Radio via Radio Trans Europe weekdays 05-06 on 9585; daily 17-21 on 9670. **Emetteur Protestant International** via Sines 9670 Wed 1645-1700 in Romanian, same time Sat in Russian. **Vox Fidei** via Sines 9670: German 1010-1100 Sat & Sun, 1610-1700 Sun, 1630-1645 Sat. Russian 1600-1630 Sat (Thomas Drescher, GFR, NL) see MALTA
- PHILIPPINES** R. Pilipinas (Voice of the Philippines) has dropped its xmsns on 9580 at 1157-1354, 1357-1654 & 1657-1854 and is at present only on the air at 0657-0954 to Japan/Korea/Taiwan/Nam = 32° beam; and 0957-1154 to SEAs = 212° (NL)
- OMAN** BBC has registered this sked with the ITU for its new SW Eastern Relay on Masirah: 7250 1545-2030 = 2 x 100 kW xmts. 11780 0545-0815 = 100 kW. 11910 1330-1645 = 200 kW. 11955 0200-0430 = 2 x 100 kW. 15310 0845-1515 = 2 x 100 kW (Dene Lynneberg, May NZDX Times) Beware: some of these frequencies may also be used from other sites (gh) See LN-14
- MOZAMBIQUE** Maputo: During May-Oct, A-Pgm on 4865, B-Pgm on 4925 at 0255-2210. 9620(A) often moves to 9625 or even 9630; 15295 noted on 15347 tho more nominally on 15335. 6015, foreign sv, adjusted to 6005. Beira: 4755 moved to 4760. A-Pgm now 0355-0755 on 3370 & 4760, 0955-1215 on 6025, 1555-2000 on 4815. B-Pgm 0755-0955 & 1215-1555 on 6025. Nampula: on 4980 ex-4946, badly distorted audio and modulation (R. Ginbey, RSA, NL)
- MOROCCO** Rabat on two new fqs: 15155 at 1000-2300 and 21735 at 1100-1700, audible after Portugal is off (Noël Green, BBC WRC 26/5) Noted 27/5 in AR at 1345 in parallel, very strong! Maybe an English foreign service would be in order. Whenever I tune in to RTVM, I hear a radioplay; must run more than any other SWBC station (Richard Stoller, NY)
- MONGOLIA** Ulan Bator ES: 0730-0800 Std Ch Mon & Thu 11855 7262 5055. 1100-1130 Std Ch on 7262 7238. 1130-1200 Mongolian on same. 1300-1330 Std Ch & 1330-1400 Mong on 7262 7238. 1330-1400 RS Mon & Fri on 5055 4763 4082. 1400-1430 Std Ch & 1430-1500 Mong on 7262 7238. 2100-2130 Std Ch & 2130-2200 Mong on 3262 7238 (BBCMS 5/78) DS: 2200-0100 5055 4763 4082. 0100-1054 11855 7262 5055. 1054-1500 5055 4763 4082 = First Pgm. Second Pgm: 0829-1050 on 6385 5960 (BBCMS 5/78)
- MONACO (FRANCE)** All TWR xmsns at 1630-1800 sked on 6035 (i.e. Czech, Hungarian, Slovak, Serbo-Croat & Romanian) are on 6215 (Thomas Drescher, GFR, NL)
- MALTA** Vox Fidei (Roman Catholic) (cf PORTUGAL above) also over R. Mediterranean on 9670 Sat 0600-0800 including FR at 0600-0630 & 0730-0800. Addr. is PO Box Ch-8040, Zürich, Switzerland (Thomas Drescher, GFR, NL)
- MALDIVES** R. Maldives has a new morning xmsn. at 0100-0700 on 4754 fine pop mx, snmts in EG and Divehi, maybe imported YL DJ, first obs 4/5 (Rohan Goonetilleke, UADX) Evening also on 4754 at 1500-1730 but poor level, must be 7.5 kW (Victor Goonetilleke, UADX)
- MADAGASCAR** Complete (SW) sked of R. Madagasikara just received from stn: Antananarivo: 3288 100 kW at 03-06, 13-21. 2495 10 kW 15-21. 5010 4 kW 03-15. 6135 30 kW 03-17. 7155 5 kW 03-15. 9690 10 kW 06-13 (NL) No more MALAGASY / MALGACHE ? (gh)
- MALAWI** (oops) Per MBC QSL dated 19/4, sked: 3380 0245-1110 & 1300-2030. 5995 at 0400-1415 (Tor-Henrik Ekblöm, Sweden, NL)
- LIBYA** Voice of the Arab Homeland, ES in AR, said per listeners' requests it would as from 11/6 open at 1700 ex-1900. However, it now closes earlier at approx 2400 ex-0115. On SW at 17-22 on 11700 9650 9500 6100. 2200-closing on 9500 only. The SW relay of Tripoli DS now ends at 1700 ex-1900 (BBCMS 15/6)
- LEBANON** R. Lebanon ES to SAM on 17765 ex-15440. PT 2300-2330, AR 2330-2430, SP 0030-0100 (BBCMS 1/6) Same change for African service: 1830 EG, 1900 AR, 2000 FR (Khajag Latchinian, Lebanon, SCDX 30/5)
- LAOS** National Radio in Udom Sai obs on new 6907 since 11/5 at +1108-1400*, likely ex-7097. Own programs till 1200 and 1230-1330; relay Vientiane 1200-1230, all in Lao; and in Lao Soung at 1330-1400. Closes with National Anthem, a rarity these days, the only other stns

doing this now are Vientiane and Pakse. National Radio in Xieng Khouang hrd on new 4757 since 19/5, obs at +1015-1400* in Lao except 1100-1130 & 1330-1400* in Lao Soung. No //s found (Isao Ugusa, FEDXR)

ISRAEL IBA obs on new 21565 in Yiddish & Russian 1400-1645 (BBC WRC 14/6) Unsked & unannounced 13m outlets obs in Russian at 0345-0412 on 21650 21495 21580. 21495 continues in lang segments to 0445; 21650 thru 0530 in French (Bob Padula, Victoria, 4/6) Obs 10/6 & 11/6 show that the 1430-1515 & 1515-1530 xmsns in Russian & Georgian have been reorganised: 1430-1440 Russian, 1440-1455 Judeo Tat, 1455-1508 Bukharian, 1508-1515 Russian, 1515-1522 Bukharian, 1522-1530 Georgian. On 25605 21580 21565 17815 17710 15415 15105 (BBC MS)

INDONESIA RRI Manado YDS Sulawesi sked at 2130-0030 & 0830-1515 on 5990 10 kW, 7296 1 kW, 3215 10 kW (Ed Kusalfk, Ont)

GUAM Monitored sked of non-EG KTWR as of mid-May: 17830 09-10 Mandarin, 23-24 Mandarin, 0000-0030 RS. 11780 09-10 JP. 15135 10-1055 Indo, 13-1330 VT, 1330-1400 Lao, 14-1430 Cambodian, 21-2130 RS, 2130-2230 JP, 2230-23 VT. 17855 23-24 Mand. 11775 1130-1300 Mandarin (this can usually be heard beneath BBC-Antigua -gh). 11900 13-1330 VT, 1330-14 Lao, 14-1430 Camb. 15175 22-2255 Indo. Cantonese pgms not yet available (Yoshiaki Hayashi via JAD-X, via June Australian DX News)

GERMANY EAST Besides its old low power xmtrs on 6115 & 7185, the Voice of the GDR HS pgm is also using high power 6040 daytime only 0700-1300. Seems to be 12th xmtr of RBI, which is in use since May sked in afternoon and night. RBI has dropped Greek (W. Blüschel, GFR)

ECUADOR HCJB reserve freq for Europe 1600-2200 is 21490, when propagation condx improve, replacing 15 MHz channels (Wolfgang Blüschel, GFR) Sked says 1500-2200, effective about 15 June; including English segments. However, still not on as of 21/6, and when is, will be confronted with adjacent QRM from VOA-21485, and jamming-21495 (gh)

CHILE VOCH ES obs non-EG sked: 1130-12 RS 15175 15125 15110 11765 11755. 1200-1230 SP on 15180 15125 15110 11765 11755. 1300-1330 RS & 1330-1400 FR 11755. 1400-1430 SP 17755 & 11755. 1500-1530 RS & 1530-1600 FR 17755 & 11755. 1630-1700 RS 11755 & 11720. 1700-1730 IT & 1730-1800 GM 11720. 1800-1830 AR 15115 11760 11720. 1830-1900 FR 15155 11760 11720. 1930-2000 SP 17715 17640 15115 11760. 2000-2030 RS 17790 17730 17715 17640. 2030-2100 AR 17790 17715 17640. 2100-2130 RS 17800 17790 17715 17640 15140. 2130-2200 AR 17790 17715 17640 15150 15140 11715. 2200-2230 GM 17800 17790 17715 17640 15150 15140 11715. 2230-23 IT 17865 17800 17790 17715 17640 15150 15140 11715. 2300-2330 SP 17800 17790 17715 17640 15150 15140 11715. 2330-2400 FR 17800 17640 15150 15140 11715. 0030-0100 SP 17800 17790 17640. Rest of sked not yet surveyed (BBCMS 8/6 & 15/6) CYPRUS LN-14

CONGO RTC gives us this complete SW sked: 3232 4 kW & 4765 50 kW 0400-0700 & 1700-2300. 4843 4 kW 05-07, 11-13, 16-21. 6115 50 kW & 7105 4 kW & 9610 50 kW & 9715 50 kW all at 07-17. 15190 50 kW 11-23 (NL) Point Noire noted on 4843 from +1500-2102* (Rikard Johansson, 10° S, NL)

COMORES R. Comores obs on 3331 at 0300-0400 & 1600-1959. 7260 at 0530-1500 (R. Johansson sailing north up the Mozambique Channel with reduced speed; checked every hour for several days, via NL) QSL received gives new addr; B.P. 250, Moroni, Ngazidja-Republique des Comores; also conflicting sked. Nat'l Svc: 3331 4 kW 1530-2000, 7260 4 kW 0900-1500. International Svc 3331 4 kW, 16-23, including FR 17-18, SH 18-19, Maigache 20-21 (Kusalik, Ont.)

CHINA R. Peking DS Summer/ Autumn sked as from 16/5: First Pgm: 17605 0303-0750. 15590 2303-1500. 15550 0003-1100. 12420 2203-0300 & 0750-1735. 12120 2300-0800=not 05-08 Fri. 11330 & 11290 2000-1735. 10245 2000-0100 & 1100-1735. 9080 2000-2300 & 2303-1400 & 1503-1735. 9065 2000-1735. 7935 2000-2200. 7504 2000-1735. 7095 & 6750 20-01, 11-1735. 6665 20-1735=not 05-08 Fri. 6225 & 5860 20-01 & 11-1735. 5320 20-24 & 1103-1735. 4905 20-23 & 11-1735. 4800 20-01 & 11-1735. 4460 20-23 & 1403-1735. Second Pgm: 15030 00-14. 12200 0003-11, 11505 23-15. 11040 0003-1240=not 0530-09 Tue. 10260 21-17. 9670 07-1330. 9020 21-17. 8320 2243-24, 07-1430. 8007 21-24 & 07-17. 7770 21-17. 7190 2218-14. 6345 21-24 & 1243-17. 5163 & 5075 2100-2400 & 1333-17. 4850 2102-2240 & 1433-17. 4250 21-2215 & 1403-17 (BBCMS 18/5) R. Peking DS in minority langs obs: Kazakh 0130-0225 on 15510 9920; 1400-1455 on 9920 8565, both relayed by Urumchi 5440 4970. Korean 04-0455 9920 8565, 1000-1055 8565 6430, 2130-2225 6430 4620. Mongolian 2230-2325 5915 4190, relayed by Hailar 6080 3900. 0500-0555 7660 7010, relayed by Silinhot 4953, Huhehot 4895 4068, Hailar 6080 3900, Tungsheng 6045. 12-1255 5915 4190. Tibetan 2330-0025 15510 11000. Rebroadcast at 06-0655 by Ihasa 9653 9490 4035. 1100-1155 11000 9920 & relayed by Ihasa 9653 9490 4035. Uighur 0030-0125 15510 9920, 1300-1355 9920 8565, both relayed by Urumchi 7050 4110 (BBCMS 25/5) R. Peking in Amoy, Hakka, Std Ch to Taiwan: 15880 2315-0610 & 0830-1225. 15710 22-0610 & 0830-1429, 11100 20-0610 & 0830-15. 9170 20-0610 & 0830-19. 6790 20-2314 & 1226-19. 5125 20-2159 & 1430-19. 4770 1501-19. 3360 20-0130 & 10-19. The xmsns ending at 0610 run to 0705 on Suns. (BBCMS 8/6) R. Peking Chinese to Nam: 01-02 Cantonese 15705 SSB-15480 15085 12450 11990 15085 12450 11990 11845 11720 8300. 02-03 Std Ch 17705 15520 SSB-15480 15095 15085 12450 11990 11845 11720 8300. 03-04 Cantonese 15095 11980 11845 8300. 04-05 Std Ch 15520 15095 11980 11845 8300. (BBC MS 5/78)

CAMEROON International Service noted on 4750 & 7290 at 0430-0730; On 9745 at 0430-0700 & 1000-1830 followed by National Sce relay. R. Bertoua hrd 0430-0730 on 4750 and again at 1700 (J. Olema-Akio, Uganda, NL)

BHUTAN Of late R. NYAB hrd Suns on 7099, not on announced 7040, at 0730-0930 (Sudipta Ghose, IDXC1 May)

BANGLADESH Latest HS sked on SW: 0030-0400(Sun 0500) on 4890 6145. 06-10 & 1030-13 on 7150 (exc. 1115-1145) & 9615, 1300-1315 on 9615, 1315-1330 on 4880, 1330-1730 on 3965 4880 (NL)

ARGENTINA R. El Mundo obs on 9705 at 1500-2100 only (BBCMS 25/5) RSA, SCDX 6/6)

ANGOLA RNA has added Spanish, for Cuban forces, 2100-2130 on 7245 9660 (B Pgm) (Ginbey, /

AFGHANISTAN Since the coup, former name R. Afghanistan, or at times R. Kabul used. Also now back on 4775 at 0130-0330, 1330-1730 dropping 4000 (Victor Goonetilleke, May-June UADX) Is on 4775 at 13-14 in Urdu. R. Afghanistan announced that in response to complaints from a large number of students and Afghans residing abroad about the inconvenient timing of the 1200 ES pgm in Pushtu, the BC would be retimed to 1730 as from 22/5, and would be on 11770. All the other ES pgms formerly at 1000-1300 on 19m were also retimed because of this! : 1630-1700 AR, 1700-1730 RS, 1730-1800 Pushtu, 1800-1830 Dari, 1830-1900 German (BBCMS 25/5) Changed to 11820 for all these (Wolfgang Büschel, GFR, 13/6)

MISCELÁNEA RADIAL

YEMEN NORTH R. San'a reverted to 4853 ex-4975 on 27/5 for its DS in AR (BBCMS)

U S S R Moscow often audible on 21660 at 2130-2400 in Chinese. This is 3rd harmonic of 7220, not to be confused with a 'new outlet' for the 13mb! (Bob Padula, Victoria, 4/6) Some more harmonics: 23440, R. Moscow at 2115 EG to UK, 2 x 11720; 23410 Serpukhov, RS to Atlantic 2123-2130*, 2 x 11705 (Richard Stoller, NY, 27/5) All-Union Radio's (cf LN-3) programs for the eastern region of the USSR are organised as follows. 1 "ZS" (which BBCMS refers to as 1-C) is for West Siberia, the Central Asian republics and Kazakhstan, areas in the +6 and +7 time zones. 1 "VS" for East Siberia, GMT +8 and +9. 1 "DV" for FE in the +10, +11, +12, +13 time zones. The last two we refer to as "1-B" and "1-A". Besides the Central radio pgms (from Moscow), Republican, Kray and Oblast TV & radio committees have their own programmes. Listeners have complained of missing All-Union broadcasts when a local broadcast replaced it. BCing in the USSR is carried on in 69 languages. Periods at 0710-0740, 0825-0845 and 1800-1840, all local time, have been set aside in wired radio systems for all local BC committees to 'opt out' of AUR and relay their own pgms (BBCMS 8/6)

U S A VOA-Delano had taped music for propagation tests 8/5 and 9/5 0400 past 0600 (Robert Jones, NSW, ADXN) On 21460.

UGANDA (Cf June LN-7; LR-D-3) UBC also heard at 1812-1847 22/5 over RCI, testing in EG to USA and in FR to Canada on 15325 (Richard M. Utter, NY) A time they were already on the air but not to NAM (gh) Same anmt hrd 22/5 at 1244-1246 on 15325, QRM from FEBA after 1245 (Richard McVicar, Ont) Also heard in FR, in SAF 1130-1200 on 15325; and testing at 0430-0452 on 9730 as well as 1035-1053 (SCDX 13/6) R. Uganda having problems with DS xmtrs-- 7195 only is heard since mid-May; 4976 & 5026 missing (BBC WRC 14/6) The 7195 xmtr also radiates signals on 7100, 7280, 7290 (J. Olema-Akio, Uganda, NL)

SYRIA Damascus in SP at 0030 on 9585 (B. Sedano Ruano, Spain, SCDX 6/6)

SABAH R. Malaysia Kota Kinabalu on new 5980, possibly replacing 4970 (Iseo Ugusa, 11/6)

PORTUGAL R. Japan, planning to use Radio Trans-Europe, Sines as a relay station next year, has already begun testing! (gh) The test period is 25/6 to 22/7 1978, target areas Europe & Mid East, General Service at 0700-0730 on 9685; 2200-2230 on 9670. Special QSLs offered. (NHK via Mac Leonhardt) R. Messias (cf WRTH 78 page 70) does no longer exist (NL)

PHILIPPINES FEBC obs drifting from nom. 6030 to 6032-3, audible around 2045-2130 and from 0900 fade-in. Het to AFRTS 6030, RA 6035 (Bob Padula, Victoria, 4/6) VOA's transportable 50 kw xmtr at Tinang is operating on 15365 ex-15345 as of 7/5 at *1100-1500* in EG, Indo and Malay (Robert Jones, NSW, ADXN)

PERU R. El Sol de los Andes is heard on 3202, far from its nominal freq. R. Victoria, Lima on 6019 around 0200; R. La Crónica on 9523 ex-9518 (Jan Tunér, DX Juke Box 8/6) R. Del Pacifico heard 1+3/5 at 2210-2300*, new time (Andrea Lawendel, Italy, PLAY-DX) On 9675, saying retune to 4975. (PLAY-DX) We heard the same thing on 21/5 (BBCMS 1/6) Many of the stations listed in WRTH 78 are silent on SW (Victor Jaar, PQ) Inactive stns to be deleted are: 67) 4820, 79) 4910--but now active on 6175; 175) 4990, 101) 5055, 43) 5816, 67) 5950, 46) 5950, 128) 6035, 143) 9618 and 129) 9730 (Tor-Henrik Ekblöm, Sweden, NL)

PAPUA NEW GUINEA PNG National Radio hrd on new 4760 with nothing on 4890 at 0945-1115+. No site ID but ads for "coconut biscuits made right here in PNG" (Tom Overcamp, SC, 5/6) On exactly 4760.0, 0810-0930+, best after 0900; news 0820 & 0900 (Pitt McNeil, DC, 4/6) Strange things happening. NBC hrd at new time of 1153-1200, ex 0800* on 9520 25/5, but not hrd 30/5, tent. at 0850 5/6. On 4/6, new 4760 0935-1000, also 5/6 0920. Could not hear

3925 on 4/6. Still on 4760 6/6, missed checking 7/6. But on 8/6 back on 4890, and not hearing 9520 to 1200 either. On 11/6 at 0800 I heard 3925//4890//9520, and anmt that P2K9 was now closing. Too late to check, but I assume 9575 was 'required'. 9520 was gone some time between 0810 and 0825; very odd sked (Syd Osterman, Ont.) 4760 was first noted 1/6 at 2045, and from 0730, consistently. I cannot suggest any reason for change (Bob Padula, Victoria, 4/6) Hey, 4760 x 2 = 9520! Perhaps 4890 out for repair so they fired up one half of 9520 instead? (Osterman) Obs on 4760 for a week from 3/6, but backed to old 4890 since 10/6 (Isao Ugusa, Japan, 11/6)

PANAMA In spite of listings in the WRTH 78, no SW stns have been heard from Panamá since the 60's (Victor C. Jaar, PQ)

PAKISTAN Noel R. Green has recommended R. Pakistan change some freqs: 1330 WS 21590 to 21570. 1800 Turkish 11885 to 11640. 1915-2145 UK 9460 to 9465 (NL)

NIGERIA As a result of restruxuring of BC in Nigeria, the ES now announces as "The Voice of Nigeria, the International Service of the Federal Radio Corporation of Nigeria" (BBC 15/

NEPAL R. Nepal hrd on new 17800 after BCC goes off at 1400. In native lang until 1435 6) but there are EG ammts including wx at 1403. EG pgms begin at 1435 (T. Nakanishi, Japan, SCDX 6/6) 15195 or 15200 heard at 0200 with Nepali, EG nx 0220, 0245* excellent; and again at 0730 (N. Palaniswamy, south India, UADX) IFRB registers Nepal on 15200 with 100 kW at 2200-1900 to SAs, 9 db non-directional antenna. But I don't hear as VOA-Kavalla had moved a day or two earlier onto 15195 in Hindi/Urdu at 0130-0230 (Victor Goonetilleke, UADX Ed.)

MOROCCO VOA now using LSB in-band from Tangier on 17710 for UN dispatches to Africa, Fri only at 1830-1900 beginning with English, 35 kW (Bob Padula, ADXN) see also GREECE below

LAOS unID on 6675 at +1040-1400* in Lao and at 1330-1400 Lao Soung; Xieng Khouang? (Ugusa)

IVORY COAST In a sked change, Abidjan using 7214 for eves //4940, often with best signal on 41m around 2300 (Pitt McNeil, DC, 4/6)

21/5)

ISRAEL Galei Tshal's SW xmtr on 2442 was taken off the air over a year ago (IBA DX Corner

IRAQ Voice of the Masses on new 15176 in AR at 0125 // better 7195. Non-stop traditional song; time pips at 0200, ID, news headlines and Koran (Victor C. Jaar, PQ, 5/6) VOM has moved from 11925 to 11935 (BBCMS 1/6)

INDONESIA QRPer, take note: (gh) RRI Sorong has a 50-watt outlet on 9610, and 10 kW on 4872. RRI Jayapura on 4980 with 500 watts, 11940 with 10 kW (Tatang Hartono, Indonesia, UADX) Quoting the Chief of Staff of the Security & Order Restoration Command, RRI nx 9/5 said the govt only imposes xmsn time limits on non-RRI stns: 2300-1700 only. The govt was compelled to take this step because many private radio stns had been found abusing their rights after midnight (BBCMS)

HUNGARY R. Budapest going from Hungarian to EG at 0300 on 18000-. Noted on two rigs so likely a spur; also noted spur of theirs around 15055v several nights--first thought it was RHC! (Pitt McNeil, DC, 29/5, TDXN) RB is sked on 6000 kHz at this time, so most likely 3rd harmonic of that, audibilized by good propagation condx; not to be confused with the Turkish unID reported last month! (gh)

HONDURAS Many of the listed stns on SW appearing in the WRTH 78 are silent (V.C. Jaar, PQ)

HAITI All stns listed SW in WRTH 78 are silent. 4VEH has been silent for several months now. R. Citadelle 6155, the last Haitian stn noted on SW, has also been absent for several months. Some of the Haitian stns listed in the WRTH 78 have been silent for 10-15 years; some never went on the air. Updating badly needed. (Victor C. Jaar, PQ)

GUIANA FRENCH WRTH is wrong. Cayenne is on 3385 and signs on at 0900 (Victor C. Jaar, PQ)

GREECE (Cf MOROCCO above) VOA heard on 11925 at 0320 in EG with African Safari on SSB. Signals good on 20/5 (Richard Monjure, LA, June SPEEDX GRAM) Listed as Kavalla 250 kW to E&C Af (gh)

GERMANY EAST Soviets Deploy New Jamming Gear. A Fix-Six dipole-array direction finding system visible to travelers along the Autobahn into Berlin, appears to have been modified for jamming purposes, e.g. thicker cables necessary for high-power transmission, not just reception. The modifications suggest the system can function as a jammer in the 2-20 MHz range. In the past, the Soviet R-834 and R-330 jammers have been seen. In this Stahnsdorf compound, near the Berlin city limits. By combining the jammer and the Sigint/DF equipment into a single unit, the Soviets could significantly reduce the reaction time between victim signal acquisition and initiation of jamming. Using Fix Six offers another advantage as a jammer antenna, because it can focus directional beams in a victim's direction (Harry F. Eustace, May 1978 Electronic Warfare/Defense Electronics, via Robert L. Foxworth, NY)

FRANCE I heard RFI s/on in FR to "Canada" at 0400 6/6 on 11730, very strong signal, talk pgn and music (Rob Harrington, CO) Vive le Québec esclavage... (gh)

FINLAND It might be good news. It might be bad news. It depends on how you look at it. The number of reception reports flooding in has risen to a level where we either have to

hire more secretarial staff and cut back on our program-makers, or tighten up on QSL card policy. We've chosen the latter. From now on a Radio Finland Audience Card is going to mean a lot more. From 1/6, the minimum details for a verified report are: 1-date 2-GMT 3-frequency 4-program subject 5-comment on program 6-reception conditions. But to reward our faithful listeners and regular correspondents, we're bringing out a series of 12 Audience Cards, a different one for every month of the year. There will still be no charge for an Audience Card - no IRCs needed. We think this would be unfair to our younger listeners, and those in developing countries. And if the postal charges to Finland are too high for any listener, he or she is welcome to send their report to the nearest Finnish embassy.

ETHIOPIA Radio Voice of the Revolutionary Ethiopia, hrd 22/5 on 7110 from (R. Finland) ARO 0335 to 0403 in Amharic, lots of raving about Somalia. Very good signal at first, but ARO QRM and fading as it got later (Richard McVicar, Ont. RCI DX Digest) HS on 5990 ex-5985 hrd 22/5 around 1600 (Peter Bunn, Victoria, ADXN)

EL SALVADOR In spite of WRTH 78 listings, no stations are currently active on SW (Jaar)

DOMINICAN REPUBLIC R. Clarín info gleaned from listening to "This is Santo Domingo" : Rudy Espinal said on 23/5 that he was born in Curaçao, while his father was apparently in diplomacy or business. Transferred to Lebanon; spoke for 3 years French, and taught it for a while in the D.R. This explains some of his varied linguistic background. Another time he said R. Clarín had an estimated 100,000 listeners among the Dominicans in New York City, and about 4,000,000 in the USA as a whole, and maybe 1,000,000 in Europe. I never heard him say exactly where these figures came from! On 27/5 he said that the 1200 airing of TISD was being dropped as an economy move because the opposition Revolutionary Party had won the recent election. It seems the income from Clarín's Sunday broadcasts of the National Lottery had paid the expenses of the international service, but having supported the losing side (Balaguer), R. Clarín could no longer count on this business. On 29/5 he said there would soon be a further cutback to 2 English broadcasts per day. TISD continued to appear, more or less regularly at 2300 & 0300 until 16/6 when Spanish programming was heard instead, and from 17/6 11700 was off the air. With this station, one never knows whether silences will be for a few days, a few months, or forever. A large batch of QSLs was mailed from New York 6/6, with info in pseudo-WRTH format, including these Leading Personalities of the parent company, Difusora Hemisferio, S.A., whose geographical address is Prologación Avenida México esquina Clarín: Pres. Salomón Sanz. Adm. Neit Nivar Báez. Sub-Adm. Lic. Eliseo Nataniel. Dir. Rodolfo A. Espinal. Dir. Tec. Rafael Ballenilla. Despite being rather well known to Rudy, my name on the QSL was Glenn H. Auser. Rudy appears to have taken seriously a DX magazine comment about a movie "Looking for Mr. Espinal" being made (gh) On 31/5 Espinal said R. Clarín had many govt annts on "AM" which helped finance SW, and due to uncertainty about the new govt's policies, SW will be cutback to five hours a day with sign on at 2300 (SWNS) On 2/6, Espinal said funds to support the SW svc are about to be cut, and asked listeners if they would be willing to pay a buck a month to keep TISD on 11700. I wonder how many would pay that to hear QRM from the USSR? Rudy's request for monies was certainly in bad taste (Don Johnson, SPEEDX GRAM) How so? Listener-supported radio is quite successful in a few American cities. But I don't think he was serious about that, tho I bet a few bucks came in as a result! (gh)

Radio-TV Dominicana has been jumping back and forth between 5970 and 5975, on frequent checks around 1015-1030 (Jack Jones, MS) On 5968 at 0430 (Noel Green, BBC WRC 7/6)

WRTH is wrong. R. Mil nominally on 4940, heard recently on 4930 (Victor C. Jaar. PQ)

CHILE R. Nacional DS on new 11760/9550 hrd around 1600. ES has as many as nine xmrts going at once now (Gordon Weston, BBC WRC 14/6) See sked earlier in LN (gh)

COLOMBIA Rumour has it that RCN will take over the SUPER network after Presidential Elections later this year (April NZ DX Times) Which were in early June (gh) R. Super de Medellín has been off the air, but wants to come back on a new freq of 4825 (SCDX 20/6)

CHINA Peking harmonic on 30120, 2 x 15060, noted around 0400 with EG to Nam (Padula, Vic.)

CAMBODIA Since late May Democratic Cambodian Radio on 4908/11943 has been off the air for all xmsns. What has happened to them? (Isao Ugusa, Kobe, Japan, 11/6)

BRAZIL R. Cultura da Bahia hrd on 18465, 5/5 at 2145, 3 x 6155!! (Andrea Lawendel, PLAY-DX) A Voz do Brasil reported that on 12/5 MinCom would inaugurate an xmtr complex in Itaora, near São Gonçalo, to serve the Nacional, Ipanema and Educadora radio stations of Rio de Janeiro (BECMS)

BOLIVIA R. 21 de Diciembre, Catavi, obs on 6082 on 10 & 12/5 until 1330 (BECMS) Rdif. Cristal announces that it ops from La Paz on 6195, 5005, callsigns CP64 and experimental X48 respectively. Later they said 1100-0400 was their xmsn span; so far confirmed only on 5005 (BECMS 15/6) R. Stentor has been heard on 6184 around 2330 (Jan Tuner, DXJB 8/6) ula)

AUSTRALIA ABC Perth frequently observed here in May around 0400 on 30850, 2 x 15425 (Pad Argentina) (Cf June LN-5) R. Rivadavia is heard on 5882 around 2200 (BBC WRC 26/5) Now regular on 5882 after 2300 with football and other things; always strong and full AM (Pitt McNeil, DC, 4/6) Due to the World Cup, I suppose (gh)

ANTARCTICA AFAN McMurdo wasn't audible on 6012 at 1145, but at 1157 EG anmts, and US an- them 1158, then forces programming 1200. So presume signing on at this unusual time, 24/5 (Peter Bunn, Victoria, ADXN)

ANGOLA R. Nacional, Luanda regularly on new 4790 ex traditional 4820; first obs 31/5, fading in 2030, Port to 2330 fade out (Bob Padula, Victoria) A recent RNA anmt said the regional stn in Huambo ops on 5060 and 3345 (BBCMS 18/5)

ALGERIA Algiers obs at 1200 on new 9635 // 9705 & 9685, Arabic (Wolfgang Büschel, GFR 13/6)

CLANDESTINE CRANNY

Voice of Malayan Revolution for morning service *22 now on 15790 ex-9620 //7305. Afternoon *0430 now on 11830 15790; evenings *1030 & *1245 same. Confirmed in early May. 9620 will not be used until Nov or Dec (Isao Ugusa, FE DXR)

Voice of Thai People extended *1530 xmsn by 30 mins, at least since Feb, to 1650*; does not apply to other xmsns, about 50 mins long (Naoyuki Tsukamoto & Isao Ugusa, EE DXR)

Voice of Iraqi Kurdistan was obs 2/6 in Kurdish at 1630-1715 on 5950, butnot hrd 3/6. Un- confirmed reports that it had also BC on 26/5. Cland stn by same name controlled by Kurd- ish leader Mustafa Barzani operated 9/65-5/66, 11/68-3/70 and 3/74-3/75 (BBCMS 8/6) Not heard since 2/6 (BBCMS 15/6)

Voice of the Omani Revolution pgm via Libya retired to 1800-1815 on 11700 9650 9500 6100

Voice of Palestine, Voice of the Palestine Revolution on 1520 kHz annc/d 5/6 at end of 1600 -1800 xmsn in AR that an experimental pgm would follow to 1900. It turned out to be noth- ing but Palestinian songs. Since 8/6 VOPVOPR absorbed it into its regular sked (BBCMS)

Voice of the Free Sahara pgm via Algiers on behalf of Polisario Front, is now on 575 kHz at 2100-2200 ex 2000-2100. A survey failed to reveal any SW channels (BBC MS 15/6)

Voice of Chilean Resistance - no sign of it at 2300 on 6160, 7245 or 7145 (McNeil, DG, 4/6)

Voice of Zimbabwe, EG pgm from Mozambique reveals that it is presented by the Patriotic Front for all Zimbabweans 'from the Zambezi to the Limpopo' on 98.01 MHz, 278m =1079 kHz, 92m =3265, 60 and 49m. The 1800-1840 pgm contains 10-min nx, and 2 commentaries of 9 and 2 mins. Each segment interspersed with African music. A brief recording of slogans in Shona and Ndebele is included towards the end of the pgm (BBC MS 18/5) There is a request pgm Fri at 1810 (François Steyn, RSA, SCDX 30/5)

Voice of Free Africa is no longer on MW 1000 kHz, but instead from RBC Rhodesia, Radio 3, with pgms containing national addresses by the three black leaders of the Executive Coun- cil and music. VOFA is now only on 5016 at 1800-1900 including EG Wed 1830-1900 (R. Ginbey RSA, NL) VOFA is no more, replaced by R. 3 (Johann Olema-Akio, Uganda, SCDX 30/5) VOFA has new time and new freq, 1830-1930 on 4828 (Ginbey & Colin Miller, RSA, SCDX 20/6)

European Music Radio was first on the air 5/76, weekly; after a series of tests, EMR began full sked service on 22/5/77: DX pgm, Mail Box, Free Radio Spot and various musical pgms from other countries. Reports received from many European countries. EMR transmits every 3rd Sunday in the month, 1000 past 1200 in winter, 0900 past 1100 in summer. On 6265 kHz, soon 7.3 MHz. Skyport Radio is on 7390 kHz, all in South East England (Barry Stephens, EMR, 7/6, via Sam Barto, CT)

Jamming of Pirates All pirate stns in the 48m band were jammed Sun 21/5 at 0930-1230. But Vatican Radio on 6210, Budapest on 6225, and Andorra on 6230 were not. The pirates are breaking the law, but is there any law allowing jamming? The jamming certainly disturbs the allocated users of the band more than the pirates do (Thomas Drescher, GFR, SCDX 6/6)

"WB10, the first on 75" On 25/5 at 0300 I came across a very strong signal on 3882 kHz. Signal of high fidelity quality with continuous pop mx. Then a break with an "Atlanta" jingle and a man's voice identifying himself as Dely McNorton (?) and the ID above. He said the stn would return in a few weeks with new equipment and new powers, then off the air at 0303. Must be a hobby pirate as in June LN under "Radio 85" (Ronald B. Young, MA)

NOTE: Pirate radio operators run the risk of a large fine, should the FCC choose to en- force its rules strictly. Beware. The responsibility of NASWA is to publish news about all types of shortwave broadcasting, not to encourage pirate radio. (gh)

Voice of the Voyager noted on 5850 at *0400-0506* with rock mx and talk 11/6. Mentioned Sam Barto and other DXers, and stns such as R. Caracas, see June FRENDX QSL Report. Invi- ted calls at your own risk to 212 626 9906. Asked for calls from the westerners and a pos- sible dipole change (?) for a beam to Brooklyn and the Bronx. Acknowledged a call from Denver; said was on extended service but off at 0506 with "1000 watts of insanity, may the sprit of the voyager be with you always" SINPO 45334 (Tim Barany, 827 Highland, Oak Park IL 60304) VOV heard on nights of 6/5, 13/5, 28/5, 3/6, usually s/on 0400. Sometimes they have hilarious episodes of "Bobby Bootlegger" on their own origin. For phone-in only rare- ly do they use 415 area code (San Francisco), but mostly NYC 212 830 or 626 - 9906. There have always been at least two ancrs and often sounds like an entire room full of guys. I've

called them every week and gleaned this info: Xmtr is a Hallicrafters HT-32 designed for 2-30 MHz, and they now have a dipole cut for 5850, N/S direction. They plan for future broadcasts a phone-interview with former WCPR; relay of an ancient pirate R. Bongo Bongo, and a freq change to 6220 and/or 1605 kHz. Requested new callers, and old regulars to wait until end of BC. They want help on getting a more acceptable phone patch network. I have looped them as N/NW and would suspect northern Minnesota QTH --who the Ann Arbor/Detroit connection is I don't know. QSL received 5/6 and they say they've got 1000 printed up and want to give them away before they get busted - so I guess they are at least realistic. All in all, a fine way to start interest in pirate radio over here in the states; how long before the FCC catches on? (Bill Whitacre, MI)

Radio Libertad Cubana is a third clandestine I heard while in FL monitoring the 40m band. Caught R. Abdala sign on 24/5 at 0100 on 7082. Then on 7090 at 0152-0158* closing with RLC ID, not the same voice heard earlier on R. Rebelde. 25/5 caught Rebelde on 7090 to 0300* with the usual announcer and r-r-r-r-rolled r's. Abdala back 31/5 *0100 with same cruddy audio as before. How many people can actually stand to listen to this mess? 2/6 at 0235, R. Rebelde on 7080, 10 kHz lower than usual. 0238 QRM'd by a guy claiming to be in Habana, CM2HB, CQing Europe. On 7080 at 0315, RLC back again! At 0253 on 7080, Rebelde, QRM'd by a VFO swisher, thanking listeners for letters. Wishful thinking? Off at 0356 and so did CM2HB and assorted noisemakers. After RLC came on, at 0317 5-or 6 stns all popped up on frequency, almost zero beat, calling CQ. 0330, Rebelde contacting someone, while someone else is swishing a VFO on him.... (Harry Helms, SC) 18000 Turkey pirate: LN-14

FUTURE PLANS

ZAIRE AZAP news agency reported 13/5 that per the State Commissioner for National Orientation, the new VOZ radio network will become operational in three months time and will make clear reception possible over the entire country. VOZ from Kinshasa currently hrd on 11720, 7255 (BBCMS 18/5)

W A R C 7 9 Broadcasting experts from non-aligned countries met in Algiers 13, 14 and 15/5. They approved a resolution saying that an important step had been taken at the meeting along the road to achieving the 'legitimate expectations' of the broadcasting organizations of the non-aligned countries. They also warned against the danger of foreign radio stations whose frequencies extend outside their national borders and demanded equality in the distribution of frequency bands with advanced countries. Solidarity was also expressed with radio stations of the liberation movements (BBCMS 18/5 from a R. Algiers report) In reporting on this same meeting, Tanjung news agency said the Algerian Director General for Radio had pointed out the ITU now includes more than 100 developing countries, and this number gives them the power to take decisions and to vote for them. Further, the Yugoslav news agency cited the Iraqi news agency that the experts had decided to aim at curbing the activities of foreign broadcasting stations which influence the developing countries. They also decided to fix radio frequencies and prevent countries from using frequencies allocated to the tropical region. The meeting in Algiers had been attended by reps from Algeria, Cuba, Guyana, India, Iraq, Kenya, Nigeria, North Korea, Yugoslavia, Zambia, and "Palestine" (BBCMS 25/5) Stanley Leinwill of RFE/RL has proposed to the FCC working group possible time sharing of allocations, between broadcasting and fixed, such as, in local time:

KHz band	Fixed	Evening Transition	BC	Morning Transition
4063-4123	09-18	18-21	21-06	06-09
5005-5060	09-18	18-21	21-06	06-09
7300-7500	08-17	17-20	20-05	05-08
9775-9850	08-17	17-20	20-05	05-08
11600-11700	06-15	15-18	18-03	03-06
13700-13800	05-14	14-17	17-02	02-05

Two assumptions have been made: 1. That fixed services would use the shared bands for short distance circuits exclusively, up to 750 km. 2. That broadcasters would be using the shared bands primarily during prime evening listening hours, principally over paths of 2000 km or more. Each service would have priority in the bands where local time at the transmitter, receiver site, or reception zones fell within the hours designated in the Table. During the transition periods neither service would use the designated bands. Advantages to the proposal include: making sharing a simple matter of looking at the clock; keeping interference between services to a minimum by a three time zone buffer period. Disadvantages: time changes over short distances in polar areas would enhance interference. This could be restricted to latitudes between 60 N and 60 S (via FCC IBSG)

THAILAND, SINGAPORE & MALAYSIA. R. Thailand and they will start 4 Asian language pgms, including Japanese as soon as new 250 kW xmtr is completed. Singapore & Malaysia also plan to start Japanese lang (Yoshiaki Hayashi, FEDXR) SAIPAN LN-14

PARAGUAY et al. Sylvian Tack, who controls the pirate station Radio Mi Amigo 'reports he has been given a license to broadcast on SW by Pres. Stroessner of Paraguay and has formed a company to do just that', according to the Mar-Apr Broadcast Programming & Production. However, the same article noted that Tack "worked out an elegant, complex scheme with two Costa Brava (Spain) stns, R. Geron & R. Popular, which employs the Mi Amigo DJs. Adver-

tisers buy time thru an agency which purports to represent Gerona and Popular--the commercials miraculously appear on Radio Mi Amigo". (SWNS) OMAN LN-14

IONOSPHERIC HEATING Institute of Telecommunication Sciences, at NBS Boulder, has quietly let it be known that the installation near Platteville CO soon will be reactivated. Richard Grub says a new series of tests will be run under the leadership of Ed Violette. Equipment was last used for certain tests in 1974, and a time or two later for equipment testing. The tests are run to heat the ionosphere with the objective of increasing, or at least changing, the amount of ionization above the test sites. The frequencies used are between 2.5 and 10 MHz; bursts of Morse code lasting 10-15 seconds, picked by a computer, will be transmitted. All the frequencies used are in government-assigned bands, or at least not in the ham bands. The tests are to find the effect of the heating. It may cause periods in which signals crossing the heated area are reflected much more intensely than usual. At first it was planned to be in operation in June but that date seems to have slipped. The Erie Ionospheric Sounder is generally used along with these tests (Charles Cotterell, WQSI, Denver Post 21/5) INDIA LN-14

GHANA The R. Ghana has issued a hypothetical ES schedule including new times and frequencies, dated effective 7 May to 3 Sept 78, a separate note is still stapled to it reading "for technical reasons, regular external service transmissions on all frequencies, except 6130 kHz, have been suspended until further notice." (via Page Pyne, MD)

FRANCE France Inter reported 10/5 that the French Head of State is not prepared to allow the spread of so-called free radios, whatever their objectives. The President has asked the government to place legislation before parliament immediately to ensure that the radio and TV monopoly is respected (BBCMS 18/5)

BOTSWANA VOA has tentative plans for a relay here (Tom Blossom, OH, REVIEW OF INTERNATIONAL BROADCASTING, June)

AUSTRIA The tendency to increase the number and strength of transmitters on the SW bands has led to a continual deterioration in reception conditions for broadcasts from Austrian Radio SW in Moosbrunn. The programme of improvements and extensions which have now been authorized will enable overseas broadcasts from Vienna to compete on more equal terms in the ever-keener struggle for free air-space. In a word: Listeners will be able to hear us better. On account of the inflexible and narrow directional radiations of the existing, provisional antennas at Moosbrunn, we have no possibility of reaching all the important target areas with sufficient power. The result is that Austria can only maintain a minimal presence on the air-waves. Now, a universally applicable high-gain directional antenna array which can be rotated to all points of the compass will make it possible to reach new regions and to provide larger target areas with signals of increased power. We shall then also have the opportunity--which is quite normal in international broadcasting--of transmitting a pgm in a single direction simultaneously on two different SW bands so as to ensure adequate reception. A network for the parallel coupling of two 100 kW xmtrs will give us the chance, in cases where QRM is being caused, to step up our output power and so induce the foreign xmtr concerned, to quit our frequency. This will be completed early in 1981. When our new 250 kW xmtr then goes into operation in 1983 we will be in a position to make extensive use of the increased xmtr power at our disposal (ORF, 4/78)

PROGRAM NEWS

U S S R Here is R. Moscow's revised lineup of main programs in the North American Services: news and commentary daily every hour on the hour 2300-0300+, and on the half-hour 0330-0630+. Moscow Review at 0030, 0230, 0500, 0700. Spotlight on Sports, Tue 0015, 0215, 0445, 0645, followed by Greetings from Moscow five mins later. What Is Communism, Wed & Sat 0015, 0215, 0445, 0645. Soviet Way of Life, Wed 2315, Thu 0115, 0315, 0345, 0545. Music at Your Request, Thu 0015, 0215, 0445, 0645. Round About the Soviet Union, Wed 2345, Thu 0145, 0345, 0415, 0615. Science & Engineering, Fri 0015, 0215, 0445, 0645. Moscow Mailbag, Sun & Mon 0015, 0215, 0445, 0645. Thinking Out Loud, Sun 2310, Mon 0110, 0310, 0340, 0540 (via Mac Leonhardt)

U K O G B A N I Some July highlights on the BBC WS. Summer reruns of documentaries Tues 1030, Weds 1715, Thurs 0030: Making a Map, week of 4th; The 2000 Year Old Village, 11th; Healing by Art and Music, 18th; The Cries of London, 25th. Coffee-Grounds for Complaint? 29th at 1130, 30th 1830, 31st 2330. Same times a week earlier, The Economics of Publishing. Lord Peter Wimsey is back in a serial, Five Red Herrings, with Ian Carmichael in the starring role, from July 24th, Mons 1130, Tues 1615, Fris 2330. Frank Muir Goes Into... from 16th Suns 1430, Tues 0330, Thurs 1030. Live Promenade Concerts begin the 21st, also 22nd, 28th, 29th, 31st, all at 1830 GMT. (gh)

THAILAND R. Thailand stated that as from 4/6 all govt-owned radio stns are to relay a half-hour religious programme from R. Thailand every Sunday (BBCMS 1/6)

KOREA SOUTH New R. Korea pgm from 5/6 is "Current Developments on the Korean Peninsula", Weds 0645 on 9640, 1615 on 9640/9720, 1815 on 9720 to NAM. Replaces "North Korea Inside Out" (Bob Padula, Victoria, 4/6)

HUNGARY R. Budapest feature pgms in July: Sats 2100; Suns 0200, 0300, 1030, 2100; Mons 0300, 1030, 1430: week of 1st, The Gypsy Painters; 8th, Musical Clowns; 15th, Pop Debuts; 22nd, True & Fake in Folk; 29th, Second Rosenbergs Lecture. Inside Hungary is Weds 2100; Thus 0200, 0300, 1030, 1430. The Correspondents is Thus 2100, Fris 0200, 0300, 1030, 1430. Teach the World to Sing is Fris 2100, Sats 0200, 0300, 1030. Looking Around, Mons 2100; Tues 0200, 0300, 1030, 1430 (Budapest International via gh)

GERMANY EAST Voice of the GDR now broadcasts a monthly 15-minute bulletin of church news entitled "Reports from Church Life", e.g. 27/5 at 0645-0700; 24/6. The first edition, compiled by the Federation of Evangelical Churches in the GDR, is believed to have been broadcast in April (BBC MS 1/6)

FINLAND R. Finland's first course of Finnish by Radio has been so popular that we're going straight on with a more detailed course. If you missed "Introduction to Finnish", we're repeating it in our "Sunday Best" program on four consecutive Sundays, 2/7 to 23/7. A language as complex as Finnish is impossible without printed material. The course material is available free from: Radio Finland, Introduction to Finnish, Box 95, Helsinki 25, Finland. Our more detailed course, for people with a real appetite for the language, can be heard every Monday on R. Finland from 5/6 to 7/8. For this it is necessary to have the coursebook, not available from R. Finland, but for US\$8 from Suomalaisen Kirjallisuuden Seura, Hallituskatu 1, SF-00170 Helsinki. It's called "Suomea Suomeksi I" (R. Finland)

CANADA On the CBC Northern Service, the Royal Canadian Air Farce, which has been Suns at 1705, will be off for the summer from 9/7 to 1/10. A new game show dealing with the English language is Many A Slip, Mons 0230-0300. Summer Stage begins 2/7, Suns 2005-2100. Gilmour's Albums has been rescheduled to Sats 2005-2100. Armchair Traveller, conversations with people who have visited interesting places, like the Galápagos, is Mons 0410-0500 GMT. The quiz/humor/drama shows at 0004 Tue-Sat have been replaced by Focus North at 0000. But there are such shows scheduled Mon-Fri at 1804-1830 (gh)

DX PROGRAMS

SWITZERLAND SBC's French DX program has already begun, the fourth Sunday of each month (Bob Zanotti, SCDX 6/6)

SRI LANKA SLBC has very good signal on 11835 these days for the Mon 1115-1130 airing of Radio Monitors International, as 28/5 (Jerry Berg, MA, TDXN)

SPAIN REE's Spanish DX program is sked: Sat 2015 to Eur on 6140 7105 9570 11920. Sun 0045 & 0245 to SAM on 9360 9530 11945. Sun 0045, 0245, 0445 to CAM on 9360 11775. Sun 0245 & 0445 to C&NAM on 9630 11815. (NL)

PORTUGAL From the end of June the DX tips part of our club DX program "World DX News" will be phoned thru just a day or two before transmission, as from Sun 25/6; 0935 on 9670 (WDXC)

PHILIPPINES R. Veritas Monitors International DX pgm is at 1440 Mons, repeated Sats 0105 (R. Australia Japanese DX 4/6)

NETHERLANDS Beginning this month, the DX reports on R. Nederland's DX Juke Box can be much more up-to-date, thanks to feed by satellite to relays rather than by airmail tapes (gh) As RN's DX programs in English, Spanish and Portuguese seem to have become the most popular programmes of each language section, RN will introduce the first DX program in Arabic, as from November (EDXC Newsletter)

ECUADOR The West German club AGDX produces a DX program over HCJB, bi-monthly on 24/6, 26/8, 28/10, 23/12/78. (SCDX 16/5)

DOMINICAN REPUBLIC When R. Clarín was off the air during the Clarín-DX slot Sun 0000-0030 one week, Rudy played my DX report tape instead the following Monday within This Is Santo Domingo's last half hour-2325, and Tue 0325. Keep that possibility in mind should similar circumstances arise (gh)

CANADA Some engineers at RCI have a hard time playing the right tapes on Sundays, so it's inadvisable to wait until the 0400 (final) broadcast to hear Edition II of the DX Digest. Edition I was played both at 0300 and 0400, on GMT Mon 12/6, for instance, and it has happened before (gh)

PUBLICATIONS

Handbook of Brazilian Radio, 350 pages containing tropical and MW band plans (including location, freq, power of stations due to start operation in near future), lists of active SW stns; MW and tropical, postal code info, extracts of the Brazilian radio law. More info from Bernd Kielman, Glojenberg 14, D-2000 Norderstedt 3, W. Germany. Please include 1 IRC for return postage (SCDX 23/5)

Far Eastern DX Review Nr. 21 features a detailed vocabulary for Vietnamese weather broadcasts, and complete texts of some actual broadcast forecasts; also program sked for Vietnam TV. And a 3-page monitoring survey of South Korean MW stations showing actual hours of operation. Sample copy for 5 IRCs via airmail. Order from JADX, CPO Box 1766, Tokyo 100-91, Japan (gh)

Snooper locates radio transmitters, Electronics, 11/5. \$1 million antenna (via Foxworth)

Free Radio Focus tells you about all there is to know about land-based and offshore free radio stations; 20 pence plus postage, or 3 IRCs, from: FRF, 13 The Chase, Crawley, West Sussex, England, UKOGBANI (WDXC Contact)

DX Flash is a supplementary 4-6 page monthly with latest DX news in English and German, published by Worldwide DX Club between each issue of DX Magazine and Weltweit H8ren. Price per year: DM 9 or 12 IRCs, including overseas air mail. WWDXC, P O Box 1263, D-6380 Bad Homburg 1, West Germany (via Wolfgang Blüschel) Not clear whether DX Flash is available with out subscribing to the other magazines... (gh)

IFSWC issues a monthly DX-bulletin in English from Italy; sample for 1 IRC to: Nicola Iaia, Via G. B. Vico s/n, 70013 Castellana Grotte (Bari), Italy (PLAY-DX 16/5, which is mostly in Italian)

DX Listening is planned to appear almost every month in Popular Electronics, as from August, except when English Language Shortwave Broadcasts appears, now a month later than previously i.e. Oct, Dec, Apr, Jun. This allows the info to be more timely, as the magazine may be obtained a couple of weeks before the cover date month begins (gh)

R. Peking program guide. CPBS and Central TV Stn would publish a radio & TV pgm guide every Sat from 24/6, R. Peking announced (BBC MS 1/6) Presumably for HS in Chinese (gh)

The Broadcast Blitz Against Revisionism: Radio and the Chinese Revolution, by Thomas Hoffer and J. D. Rayburn II, appeared in Journalism Quarterly 54, Winter 1977, pp. 703-712 (ICB)

Premises for Propaganda: The U.S. Information Agency's Operations in the Cold War, by Leo Bogart, is reviewed in the Journal of Communication 28 (Winter 1978) Page 212 (ICB)

Ham Radio magazine articles of interest: "Receiver Problems & Cures", Dec. 77. I.a., modifications to a Drake RA-C to minimize overload and crossmod problems. "General Coverage HF Transceiver with Digital Readout", Mar. 78--reasonably specific schematics and data for construction of a totally synthesized rx (plus xmtx, if you're so inclined) covering 1500-30000 kHz; notable for having no RF amplifier. Author Ulrich L. Rohde heads the firm of Rohde & Schwarz, manufacturers of some of the finest communications and test equipment in the world. (Richard M. Utter, NY)

TIME JUMPS

Morocco Per Rabat radio, clocks here are to be advanced by one hour when summer time begins 1/6; will be GMT +1 (BBC MS 1/6)

IN MY OPINION

(Robert LaRose, NY, SWNS) The recent news in LN that the VOA is to 'mothball' their xmtrs at Bethany & Dixon comes to me as good news as a DXer and taxpayer. In fact, as far as I'm concerned they should consider mothballing the rest of their stateside equipment, save for a few units for broadcasts to Latin America. My experience has shown that their extensive high powered stateside Xmtx network seems little more than feeder links to their relay stations.

Over the past 6 years, I've had a chance to visit a great deal of the world and listen to SW broadcasts at many locations in Europe, SE Asia, S Asia, Mid East and N Africa. Reception of various VOA broadcasts in most of these areas was much poorer than expected and direct reception from stateside xmtrs was exceptionally poor. I really can't explain why it is this way. After all, communications paths are supposed to be reciprocal--if we can regularly hear strong signals from these areas in N America, why can't we hear NA stations equally well from there? The fact is that in many of the European, N Africa and ME locations I have heard some NA stations with good signals, namely RCI and WYFR. But reception of VOA stateside signals is poor and spotty. The only possible explanation I can give is that perhaps the VOA antennas are directed exclusively at their relay stations with very high gain and resulting narrow bandwidths. Whatever the reason, their performance is disappointing. Before I had heard for myself I thought that the VOA 250 and 500 kW xmtrs would be super strong in these areas (they certainly are strong in NA!)

The report that VOA will replace these ineffective xmtns with satellite links and at the same time expand their relay bases comes as good news. This action will benefit DXers by removing some of the strong 'local' signals that have crowded and blocked the weaker distant stations. For the taxpayer there should be substantial savings in electricity, maintenance and other operational expenses for the stations being closed. Perhaps most important, the listeners in VOA primary target areas will benefit from clearer reception, free from noise, interference and limited fidelity of off-the-air pickups. It all sounds like good news to me.

(David A. Word, Box 217, 3800 Torshavn, Faroes Islands, Denmark in WDXC Contact) reacts to Larry Magne's comments on 60 metres: I think a logical extension of Larry's suggestion that we accompany each reception report with a letter of information to tropical broadcasters, would be an organized effort to contact each and every tropical broadcaster presently operating on 60m. I'm willing to coordinate the whole thing after my return from holiday in July and it would work like this. Each interested person would write to me at the above address expressing his willingness to contact 5, 10 or more stations. I would then assign him specific stations to write to, in order to prevent duplication in effort.

Also, anybody who has any suggestions or any further facts on the status of WARC proposals for the 60m band should contact me by airmail. If somebody doesn't do something we'll end up with 60 in the same sad state of affairs as the International Bands with jamming and power wars the order of the day and we be unto the small Tropical broadcaster and DXer.

LAST MINUTE ITEMS

CYPRUS RIK I heard 17/6 and 18/6 on new 9690, replacing 9770 and 9575. It seems they are searching desperately all over the 31m band to find a non-QRM'd space. No parallels were announced. This is at 2215-2230 weekends in Greek for Greek Cypriots in the UK (Tony Buhagiar, Ont)

INDIA The Indian govt has approved a proposal for the construction of 2 SW xmtrs of 250 kW each for the AIR external services. Also approved a project report for the installation of two more 500 kW xmtrs for the ES. AIR has been handicapped considerably both in respect of SW as well as MW xmtrs in relation to the neighbouring countries and the cabinet decision announced 30/5 is interested to equip its ES better than it is at present (The Hindu, Madras, 31/5 via J. Krishnamurthy, Tanjore, Indian DX Club International)

JAPAN R. Japan's Gen Svc, 7 May 78. EG on the hour. Asterisk denotes 30-min. program.

Others 15. JP program of equal length follows the EG. (NHK via Wilder Pickard, IL)

Asia	11	15195	America	14*	9505	Europe	12-13	15310
00	15195	12-13 11815	00-07	15105	15	9505	00	15310
01-07	17880	14*	11815	08-09	9505	16-23	15105	01-09 17795
08-09	15195	15-21	11815	10*	9505			10* 17795
10*	15195	22-23	15195	11-13	9505			11 17795

KOREA SOUTH R. Korea dropped EG at 1930 to Eur on 9665 and added EG to Eur at 0630 on 15205. Thought it might be audible here, but VOA on frequency. At 1600, 9720 has been the best frequency for R. Korea here. 6/6 thru 15/6 reception was fair on five occasions, poor on four and unusable on one. Here are the EG broadcasts as announced on R. Korea, compared with the June LN sked:

			NORTH AMERICA	
0630	9640		As in June LN	
1600	9640	9720	9640 was under Europe	
1800	9720		As in June LN	
			LATIN AMERICA	
0230	11850		As in June LN	
1000	9580		As in June LN (via Wilder Pickard, IL, 18/6)	
			EUROPE	
0630	15205		New	
1130	9710	11965	As in LN June but 9710 instead of 9650	
1330 or 1430?	9710	11965	As in June LN but 9710 added	
2300	9650		In June LN 9640 was given under General Service.	
			GENERAL SERVICE	
1000	9525		As in June LN but under Eu instead of GS	
1130	7150		As in June LN but under SEAs instead of GS	
1600	7150		As in June LN but under SEAs instead of GS	
2300	9640		As in June LN but under Eu instead of GS	

NEPAL (Cf LN-7) R. Nepal testing on different days between 1220-1520 on 17795 and 15195 with excellent reception (José Jacob, B. L. Manohar, Lucknow, and IDXC1 HQ, June issue)

OMAN BBC's new SW relay station on Masirah Island will be starting regular programming as from 1/8, if all goes well, per a letter from BBC. No further details but it seems they will use in the local morning some of the Cyprus frequencies, and in the evening some of the Tebraus. Tests already made on different channels (Alok Das Gupta, IDXC1) Cf LN-4

SAIPAN The planned FEBC SW xmtr here will be delayed until a lease for 12 acres of land has been accomplished. FEBC says they aren't anxious to get the SWBC station on the air as their Philippine & Korean stns are operating 'unmolested'. Also, environmental factors are being taken into account. The MW outlet on 940 kHz, 1 kW is now operating 2000-0900 GMT, per letter I received; will increase to 10 kW. Programs in English and will add a local language in future (Mike Hardester, Japan)

TURKEY As for that mysterious Turkish pirate on 18 MHz (cf June LN-10/11), the Bosphorus DX Club in Istanbul which I wrote for info also told me that they ignore its source and that they keep on listening. They are on the air very irregularly, perhaps once a month or so; and they'll let me know (Tony Buhagiar, Ont., 18/6)

UNIDENTIFIED

29180 Totally unID, music heard 2142, very poor 27/5. Likely 4th harmonic of 7295 but that was covered by hams (R. Stoller)

3390 something fishy hrd 28/5 at 0128. Test tones 5 secs apart ("Kabul?" thot I, since they sign on at 0130 on this recently reactivated fq) but at 0130 kept right on going as before. Gave up and tuned out at 0142. Could be a pesky ute, but??? (R. Stiller, NY) Yes.

REVIEW OF INTERNATIONAL BROADCASTING concentrates on programming, and a wide spectrum of listener opinion. Sample copy of this monthly magazine for 75¢ or 7 IRCs, from gh only.



SPECIAL *feature*



Diane Lévesque

P. O. Box 2573

Carbondale IL

62901

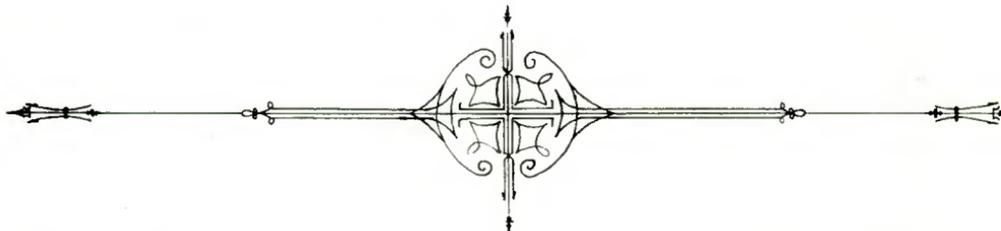
U. S. A.

What's so special about this feature is that it serves to introduce two new columns that are to appear sort-of-regular, depending on the space available and YOU and your support. If well enough received, these columns have the possibility of becoming monthly.

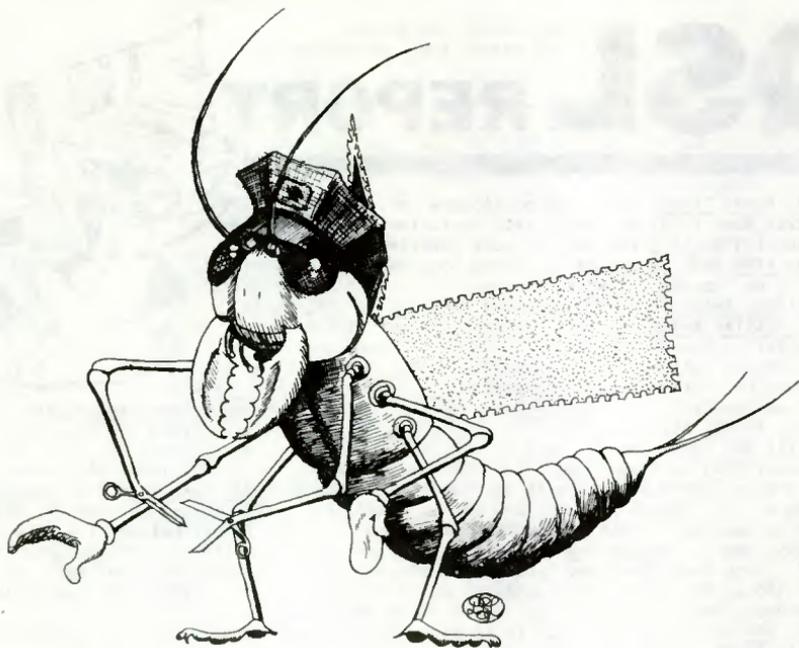
MUSIC PAGE -- Radio is a natural medium for music; rarely can you tune to a station that doesn't air music of one sort or another. Shortwave radio offers a unique variety of music from your run-of-the-mill rock to the most exotic ethnic strains, and this column is to sketch the shortwave music picture. A special invitation is extended to those who have specialized in a certain area's music, or a certain type of music, to do occasional articles on it. To those who don't specialize, just send me a card describing the type of SW music that you most like to hear and where you tune to hear it. Also, if you know of any music programs you think will interest others, tell me all about it and we'll talk about it.



WHAT'S HAPPENING -- A women's feature that isn't necessarily for women only. Whereas the rest of FRENCH deals with what's happening on the air, WHAT'S HAPPENING deals with what's happening in this club of ours with a spotlight on women's activities inside and outside the club, like, for instance, an occasional update on Greta Osmondsen's survey. So, ladies, send in a card describing yourselves and your particular interests/activities in SW (and, if you don't mind, a good, high-contrast, black-and-white photo). And guys, I'm sure you're as interested in who else belongs to this club as the rest of us, so let's get to know you and what you're doing in the hobby. We can't hold club meetings like most local clubs do, so let's all meet here, in this column!



THIS 'N' THAT -- No, that's not the name of another new special column; it's what best describes the other features that really defy any further description. If it has something to do with SW and the hobby, but doesn't really look appropriate in any of the other columns, send it here! To give you an idea, I'll kick off with a specimen from my arthropological collection, a specimen that wouldn't have become a part of this collection if Gerry Bishop's description hadn't lead to its capture. . .



Warm weather is here, folks, and that means we must again contend with more than enough of our six-legged "friends." One that most QSL hunters deal with resembles a cross between a termite and a locust--the perennial . . .

Quesel Staroscera Luciosera

COMMON NAME: Verie Famished

DESCRIPTION: A small pest about the size of a termite, with a similar cellulose diet, only it prefers to nibble on QSL's. It flourishes in post offices around the world and exhibits Gourmet particularity. Although any QSL will do, it particularly relishes those from South America and Africa, often chewing through a section of envelope and disposing of the QSL entirely. If the QSL from elsewhere, it will sample a bit of the card, chew it up around the edges, and perhaps crease it a time or two, then permit it to go to its destination.

WANTED

Descriptions of the most annoying DX bugs! Your pet peeve may well be caused by one of these pests, and your accurate description of what they do can lead to their capture, identification, and possible control!

77 7315,

Diane

QSL REPORT

Sam Barto, QSL Editor
245 Cherry Ave., Watertown, CT



- ALBANIA:** Radio Tirana 7120, "Revolutionary" cd. in 2 wks. (Blitx). 42m. In 91 ds. for 1 IRC. (Desrosiers). 7300 In 5 1/2 mo. (Cucura). 9780 In 3 wks. w/ "Chinese Painting" cd. (Alm).
- ALGERIA:** RTVA 9685, white cd. w/ AR/EG logo and station emblem in 122 ds. for an EG report. (Dalum). (Dalum).
- ANTIGUA:** BBC Relay 6175, "Bridge" cd. in 54 ds. w/ QSL policy.
- ASIATIC RUSSIA:** Radio Moscow via Khabarovsk on 15400 In 39 ds. (Grenier)...Thanks for the ASWLC bulletin Pete...Sam. via Omsk on 15150 in 44 ds. (Kusalik). via Kenga on 9760 w/ a pennant (Desrosiers). via Komsomolsk-na-Amur on 6155, Khabarovsk on 7175 and on 12050, via Yuzhno-Sakhalinsk on 7260, via Petropavlovsk-Kamchatsky on 15180, 15455, 15140 and on 17720, and via Kenga on 5900...all in 2 mo. (Hywarren).
- AUSTRALIA:** VNG 12000, folder type cd. in 38 ds. for 1 IRC. (name?). same in 29 ds. for 2 IRCs (Cucura). VLW9 9610 Wanneroo., f/d "Map" cd. in 9 ds. for 3 IRCs. (Hartsell). same in 92 ds for 4 IRCs. (George). same in 16 ds. for 1 IRC. (Cucura). Radio Australia via Shepparton on 11740 w/ f/d "Common Fringe Lily" cd. in 14 ds. for 1 IRC. (Margritz). same cd. for 9580 in 3 mo. (Gercken). 11940 w/ f/d "Pink Rose Cone" cd. in 101 ds. (Leithner). via Lyndhurst on 5995 and via Shepparton on 15320, 11705, and on 17795w/ f/d cds. "Blue Wren", "Sturt Pea", "Pink Rose Cone" and "Scarlet Crested Parakeet" respectively. (Cucura). via Lyndhurst on 15160 w/ f/d "Parakeet" cd. in 14 ds. for 1 IRC. (Margritz). VNG 12000 f/d "Melbourne from Nauru House" cd. in 51 ds. v/s R. Page. (Margritz).
- AUSTRIA:** ORF 9770, f/d "Art" cd. in 56 ds. w/ sked. (Wastradowski). 9770 w/ f/d "ORF Centre" cd. in 51 ds. (Saaf). 17710 w/ f/d "Silver Logo" cd. in 2 mo. w/ sked. (Barto).
- AZERBAIJAN SSR:** Radio Moscow via Baku on 21490 w/ f/d "Birch Trees" cd. in 31 ds. (Dalum).

BELIZE: Radio Belize 4785 f/ paper cd. w/ pocket calender in 5 mo. (Gower)...Very Nice

BELGIUM: BRT 6080 f/d blue and white cd. in 9 wks. w/ a gold orange and black pennant. (Sapoznikow). same in 32 ds. w/ pennant. (Saaf).

BELIZE: Radio Belize 3285 f/d cd. in 16 ds. for a tri-lingual report form (Blaize). same w/ "Central American Map" cd. in 22 ds. for 1 IRC. v/s Johnson, Chief Broadcasting Officer. (Desrosiers).

BENIN: ORTB-La Voix de la Revolution 4870, f/d "Five Designs" cd. in 46 ds. for an EG rpt. and ms. (Dalum). same in 41 ds. for a FR/EG rpt. and ms. (Weber). in 26 ds. (Blaize).

BIAFRA (Nigeria): NBC Enugu 6025, f/d ltr. in 9 mo. and 10 wks. after a follow-up. v/s N. Mesigo, Engineer in Charge. (Cannon). same in 50 ds. for 1 IRC. Transmitter is on Milliken Hill on the outskirts of Enugu. (Salay)...Thank you for the tip...Sam.

BOLIVIA: Radiodiffusion Paliti 4425 w/ ltr. in 2 mo. for a SP rpt. for an old reception. v/s Dorian Arlas Montero, Director. Station now on 3255 per ltr. This was my NASWA S/V or VIS # 1000. Addr: C.P. 185, Guayaramerin. (Barto).

Station had some beautiful stamps on the envelope. Now have about one third of my Scotts Album filled..Sam.

BONAIRE: TWR 11815 f/d "Radio Centre" cd. in 4 mo. (Klein). 11925 w/ f/d "Studio" cd. in 31 ds. for 2 IRCs. (Sorensen).

Radio Landivar

LA PRIMERA EMISORA COMERCIAL DE OCCIDENTE

1180 KCS. ONDA LARGA

6060 KCS. ONDA CORTA

FRECUENCIA MODULADA 90 MCS.

QUETZALTENANGO, GUATEMALA, C. A.

RADIO MAYA de Barillas TGBA

Barillas
Huehuetenango
Guatemala, C. A.

Frecuencias:
2360 kc.
3325 kc.

Es grato confirmar su reporte del día 19 de Septiembre de 1974, a las

4.54 horas, en la frecuencia de 2360 kc. Tuvo el gusto de escuchar el Programa trans-

mitido en lengua K'anjobal. La señal escuchada fue difundida por medio de un transmisor Collins 300 de 250 vatios de potencia utilizando una antena

Dipolo.

Loran W. Veitch
Gerente

SUPPORT YOUR BULLETIN

BRASIL: Radio Cultura do Para 5045, f/d cd. In 6 wks. for an EG rpt. v/s Tarbas Carvalho, Gerente Técnico.(Howard).Radio Cultura Araraquara 3365 ltr. In 31 ds. for a PT rpt. and 1 IRC. (Pineault).Radio Guaiba, ltr. received from a personal friend at the station in which he sent me 2 of the stations new decals...hot off the press.(Barto)..In next Issue

BULGARIA: Radio Sofia 9700 f/d "Nevsky Cathedral" cd. in 43 ds. for a Gilfer rpt.(Colacabylorussia: Radio Minsk 7420, f/d "Monument in Minsk" cd. in 91 ds.for an EG rpt. rro). (Hoffman)."Flowers" cd. in 217 ds. for ms.(Pineault).Radio Moscow via Orsha on 7105 w/ f/d "Kalinin Prospect" cd. in @ 1 mo.(Hywarren).

CANADA: RCI 11845, f/d cd. in 13 ds.(Wastradowski).5960 w/ 1978 "RCI Emblem" cd. In 2 wks. (Klein).9535 w/ f/d "Globe" cd. In 11 ds.(Fraser).CHU 7335 w/ "Sir Sanford Fleming" cd. In 19 ds.(Leithner).3330 and 7335 in 10 ds.(Nlorck).3330 in 18 ds.(Cucura).CFRX 6070 w/ "Speedboat and Toronto Skyline" cd. in 57 ds. v/s D. Lumley.(Dalum).

CHINA, PEOPLES REP: Radio Peking 9460 f/d "Giraffe" cd. w/ pennant, 6 calendars and a wall sized poster.(name?).15520 in 170 ds. w/ pin.(Cucura).9780 w/ "Song of the Forest" cd. In 21 ds. w/ sked, calendars and a station pin.(Rascoe).

CLANDESTINE: Radio Euzkadi 12080 ltr. received on "Gouvernement d'Euzkadi" stationary In 6

wks. after my 5th follow-up. in a total time of 2 yrs. and 1 mo. for a SP rpt. and a few IRCs.The ltr. was from an official whom I visited a year ago at the Basque Government office in Paris.This person is responsible for answering correspondence to Radio Euzkadi. v/s Jeris A. de Leizaola.



TOWER-POWER from Radio TGNA

(Lazarus)...Fine report Henry. Keep sharing information of this type with us. Thank you.

COLOMBIA: Radio Santa Fe 4965, "Berry" cd. In 286 ds. for a SP rpt. and ms.(Hoffman). Emisora Kennedy 4775 personal ltr. in 16 ds. for a SP rpt and ms. v/s Jose Vicente Echeverri S. J.,(Lazarus).Radio Melodia 6140, small business cd. and a personal note in 3 wks. for a SP rpt. and ms. v/s Elvira Mejia de Paez, Gerente.(Lazarus)....First time I've seen this one reported. Henry, you got something going with the Latins? HII...Sam.

COOK ISLANDS: Radio Cook Islands 5045, f/d "Man and Shell" cd. in 51 ds. for 3 IRCs. v/s Nooroa E. Tangarao.(Howard).same cd. In 2 mo. Transmitter located at Avarua.(Alm).same In 65 ds. for a cassette tape and 3 IRCs.(Glonet).same cd. In 64 ds. for 2 IRCs.(Wastradowski).Two identical cds. as above, in 2 mo. for a registered rpt. and 2 IRCs. The cds. are not as attractive as the old ones w/ a nice border decoration. They almost appear as if they were merely xeroxed copies.(Robinson)...Nice to talk to you Dan..Sam.

COSTA RICA: Radio Casino 5954, f/d cd. in 1 mo. w/ a pennant.(Porter).same green cd. In @ 1 yr. for an EG rpt. and 2 IRCs. v/s Hector Quesada N., pennant also cvcd.(Grenier). same in 40 ds. w/ pennant. (Hoffman).white cd. In 263 ds. for EG rpt. and 1 IRC.(Glonet).

CUBA: Radio Havana 9685 f/d cd. In 91 ds.(Wastradowski).17750 w/ f/d red, black & purple cd. In 3 mo. and on 17885 In 3 mo. w/ a red and black cd. w/ small pennant. (Barto). 9685 in 90 ds.w/ plenty of data.(Thompson).

circuitos

R P C



ONDA LARGA	
H0H1	610 Kcs.
H0H2	560 "
H0H3	580 "
H0H4	660 "
ONDA CORTA	
H0H31	9685 Kc.
FRECUENCIA MODULADA	
H0H86	100.0 Mcp.
H0H87	88.0 "

PANAMA, R. de P.

CYPRUS: Cyprus B/Cing Corp. 7230, f/d "Scenes" cd. In 100 ds. for 1 IRC (Onken)

CZECHOSLOVAKIA: Radio Prague 9540 f/d "Anti-aircraft" cd. In 46 ds. (Wastradowski)...Card sounds like a beauty..Sam. 7345 w/ f/d "Hradcany Castle" cd. In 2 mo. (Sapoznikow). same In 58 ds. w/ "Castle" cd. (Fraser)

DENMARK: Radio Denmark 15165 f/d "Radio-house" cd. In 19 ds. w/ a personal ltr. for 1 IRC. (name?). same In 40 ds. but cd was not f/d (Cucura).

DOMINICAN REP: Radio MII 4930, ltr. in 32 ds. for a SP rpt.

v/s Engracia Gonzalez, Dpto. de Relaciones Internacionales. (Ponder). Radio Clar In 11700 f/d folder "Map" cd. in 311 ds. for a SP rpt. and ms. Mailed from NYCI (Hoffman).

ECUADOR: HCJB 9560 f/d "Hands around Globe" cd. in 15 ds. for \$.40 In US stamps. Pennant was also rcvd. (Margritza). 11915 w/ f/d "Shoreline" cd. in 20 ds. (Rascoe). same In 28 ds. for ms. (Fraser). Emisor Gran Colombia 4911, ltr. in 40 ds. for a SP rpt. and IRCs. v/s Eduardo Cevallos, Director. Also rcvd. a 34th anniversary pennant. (Tuchscherer). Radio Splendit 5025, ltr. in 3 yrs. for a SP rpt. and ms. v/s Edmundo Valencia V., Sub-Gerente. (Sparks). Instituto Oceanografico de la Armada 7600 personal ltr. in 6 wks. via registered mail. v/s Ing. Freddy Villao Q., Jefe del Departamento Ayudas a la Navegacion (Lazarus)

EGYPT: Radio Cairo 9475, f/d "Head Sculpture" cd. in 101 ds. (Blitx).

ENGLAND: BBC 12179 (USB) "Tower" cd. In 16 ds. v/s J. Keith Edwards. Station stated that what I received was a feeder to the BBC Atlantic Relay Station. (Klein).

ESTONIA: Radio Moscow via Tallinn on 17700 f/d cd. In 44 ds. (Kusalik).

EUROPEAN RUSSIA: Radio Moscow via Ryazan on 15140, f/d cd. In 44 ds. (Kusalik). via Moscow on 9680 w/ f/d "Clocktower Revolution" cd. In 38 ds. (Desrosiers). 7440 via Moscow w/ f/d "Birches" cd. In 38 ds. (Desrosiers). same in 1 mo. (Hywarren). via Serpukhov on 17900 in 1 mo. (Barto). 15185 w/ same site in 44 ds. w/ f/d cd. (Kusalik). same site for 9795 in 41 ds. w/ f/d cd. (Hoffman). 7360 via Moscow in 37 ds. (Dalum) 7190 via Moscow w/ f/d "Birches" cd. In 61 ds. (Fraser). 15470 via Armavir w/ f/d cd. for the African Svc. (Barto). 17765 via Tula In 44 ds. (Kusalik). 9790 via Zhigulevsk w/ f/d "Birches" cd. In 32 ds. for African Svc. (Desrosiers). 7360 via Moscow w/ f/d red and gold cd. In 32 ds. (Desrosiers). via Tula on 7195 and via Armavir on 7205 In @ 1 mo. w/ f/d "60th Anniversary" cd. (Hywarren).

FEDERAL REP. OF GERMANY: Suddeutscher Rundfunk 6030 cd. in 80 ds. (Hoffman). Radio Free Europe 9595 w/ blue and yellow "Map" cd. in 3 mo. (Petraevick). Deutsche Welle 9735 cd. In 43 ds. (Rascoe). Deutschlandfunk 7130, "Animals Silhouett" cd. in 49 ds. (Burns).

FINLAND: Radio Finland 9755 f/d "Flag" cd. w/ pennant in 25 ds. (Pappas). "Spring In Finland" f/d cd. in 42 ds. (Rascoe).

FRENCH GUIANA: FR3 3385, "Logo" cd. In 22 ds. for a FR rpt. and 1 IRC. (Prisco).

GERMAN DEM. REP: Rbi 9730, f/d "Berlin" cd. in 56 ds. for 1 IRC and stamps. Badge and pin was also received. (Neff).

FRENCH AND THIS COLUMN CAN ONLY SUCCEED WITH YOUR SUPPORT

625 Kc.
Onda Larga
10.000 W.

TIDCR

9.615 Kc.
Onda Corta
4.000 W.

"La Voz de La Victor"

La Radio Internacional de Costa Rica

Fundada en 1925

Apartado 3611

San José - Costa Rica

A. C.

Muy agradecidos por su reporte fecha 2 / 24 / 1960

San José, Costa Rica, Abril 10 de 1960

TIDCR LA VOZ DE LA VICTOR

Encomendado por el Sr. J. Keith Edwards

*Hemos recibido un atento
carta de fidelidad
que sinceramente nos
complace.*

LA QUE MANDA EN ESTONIA

via Henry Lazarus

Con todo gusto.
RADIO MELODIA

ENVIADA MEJORA DE PAEZ
GROENIE

Car. No. A 115. 14.63 - P.O. Box.
Teléfono: RI 3701 - 827851
Apartado Aéreo 19074
Bo. No. D. 1 - Colombia



T. I. Q. "Radio Casino"

PUERTO LIMÓN -- COSTA RICA
APARTADO 287

ONDA LARGA 1175 KCS.
ONDA CORTA 5954 KCS - BANDA DE 49 METROS.

GHANA: **GBC 4915** f/d cd. In 88 ds. for 3 IRCs. (Webster). same in 7 wks. v/s A. Blauth. (Alm). same in 34 ds. for 1 IRC. (Burns)

GREECE: **Voice of Greece**
11730 f/d white cd. in 24 ds. (Woods). same in 24 ds. for 1 IRC. (Sorenson). in 5 wks. (Barto) 11760 and on 9760 w/ same cd. in 28 ds. for 2 IRCs. (Morck). 9760 in 29 ds. for 1 IRC. v/s A. Argmopollos (Cucura)

GRENADA: **Radio Grenada**
15105 f/d "On Grenada Gov't Service" cd. in 126 ds. for 1 IRC. (Pappas). same in 91 ds. for ms. (Cucura).

GUAM: **KTWR 17855**, f/d green "Map" cd. in 31 ds. for an SASE. (Fisher).

GUATEMALA: **Radio Tesulutlan** 4835 f/d "Street Scene" cd. in 1 1/2 mo. for a SP rpt. (Hywarren).

HAWAII: **WVWH 5000** f/d "Aloha" cd. in 7 ds. v/s C. L. Trembath. (Morck). same cd. for 10000 in 9 ds. (Rascoe). in 11 ds. (Cucura). 15000 in 15 ds. (Klein).

HONDURAS: **HRVC La Voz Evangelica** 4820, "Map" cd. in 82 ds. for an EG rpt. and 1 IRC. v/s Miss Ines Alvarado. (Desrosiers). same in 43 ds. for 1 IRC. (name?). in 250 ds. for 1 IRC. (Neff). f/d cd. in 7 1/2 mo. for an EG rpt. and 1 IRC. (Cucura).

HUNGARY: **Radio Budapest** 21525, f/d orange cd. in 1 mo. w/ pennant. (Barto). 11910 w/ f/d "Bridge" cd. in 75 ds. (Wastradowski). same in 32 ds. (Hartzell). f/d "Globe" cd. in 41 ds. (Fraser). same cd. in 30 ds. for 2 IRCs. (Morck)... This was my first country verified!!!!

ICELAND: **Gufunes Radio** 12175, f/d multi-pictured "Reykjavik" cd. in 4 mo. for a tape and ms. This was for the "Voice of Iceland" pgm. (Overcamp). same in 4 mo. v/s S. Sigfusson.

INDIA: **All India Radio** 11620, f/d "Peacock" cd. in 239 ds. (Pappas). 11810 via (Klein). **Allgarh** in 1 year. (Poppin).... Thanks for the letter George... Sam.

IRAN: **NIRT 15084**, f/d "Rezaieh TV Building" cd. in 26 ds. for 1 IRC. (Wastradowski). 9022 f/d "Mahabad TV Transmitter" cd. in 35 ds. for 2 IRCs. (Prisco). "Bandar Abbas TV" cd. in 50 ds. for an EG rpt. and 1 IRC. (Cucura).

IRAQ: **Radio Baghdad** 11905, f/d "Map" cd. in 90 ds. for 2 IRCs. Also received a paper pennant. (Grenier). same cd. for 9745 in 90 ds. w/ emblem (Blixt). same cd. in 48 ds. for 1 IRC which was returned. (Dalum). same in 77 ds. for 1 IRC. w/ decal. All data on the cd. was incorrect!!! (Dawson). same cd. for 11905 in 78 ds. for 2 IRCs. w/ decal. (Onken). same cd. in 113 ds. for an EG report. Schedule was also received. (Salay). same in 2 mo. for 3 IRCs. v/s M. F. Rashid, Technical Director. (Poppin).

ISRAEL: **IBA 11655**, f/d "Western Wall" cd. in 74 ds. (Wastradowski). in 3 mo. (Leithner).

REPUBLIC OF HONDURAS
CENTRAL AMERICA

• La más solicitada

H R Q

RADIO SUYAPA
SAN PEDRO SULA
R.D. 80000

• La mejor escuchada

Watts input: 2100 Antena: Watts output: 1900

GET THOSE REPORTS IN - LETS BREAK THE RECORD OF 132 COUNTRIES - SUPPORT FRENCH & NASWA

FROM "RADIO TRINIDAD", BRITISH WEST INDIES

Sydney J. Osterman
Broadcasting House,
Port-of-Spain
Trinidad B.W.I.

Transmission Hours:—

Sundays
6.00 a.m. to 2.00 p.m.
4.00 p.m. to 11.00 p.m.

Week-days
(Monday through Saturday)
6.00 a.m. to 9.00 a.m.
12.00 noon to 1.30 p.m.
4.00 p.m. to 11.00 p.m.

CHANNELS:
31.16 Metres (9,625 kc s)
231.65 Metres (1,295 kc s)

SAN FERNANDO

Dear Sir, 10th Nov. 1940
We thank you for your reception report on RADIO TRINIDAD which has been verified against the station log.

This QSL card is issued as proof of reception of this station.

Yours for good listening.

Sydney J. Osterman
GENERAL MANAGER
Trinidad Broadcasting Co., Ltd

Q.S.B.Z.

RADIO JUTICALPA

LA EXPRESION MUSICAL DE ORIENTE
 Fundada el 16 de Diciembre de 1962
 AFILIADA A EMISORAS UNIDAS

4.780 KCS.
 ONDA CORTA
 BANDA DE 60 MTS.

EQUIPOS COLLINS
 1.000 WATTS

- ITALY:** RAI 6010, f/d "Ritratto di Bambino" cd. In 74 ds. (Dalum). 9575 w/ Michelangelos-"I" Aurora" cd. In 3 mo. for 1 IRC. (Cucura). 9575 w/ f/d "Il Pescatore" cd. In 90 ds. (Fraser). 9575 w/ f/d "Vaprio sull 'Adda" cd. In 3½ mo. (Doyle). same in 62 ds. for 3 IRCs. (George). The RAI sure has some beautiful cards gentlemen...Sam.
- IVORY COAST:** Radio Abidjan 4940 f/d "Map" cd. in 29 ds. for a FR rpt. (Porter).
- JAPAN:** Radio Japan 9505, "Sarusawa Lake" cd. In 2 wks. (Matthews). same cd. for 17880 In 10 ds (Calderwood). 17825 w/ "Tachibana Dolls" cd. in 19 ds. (Desrosiers). 17725 w/ "Pagoda" cd. in 18 ds. (Leithner). 15195 w/ "Hakata" cd. in 2 mo. (Bares). same cd. for 15105 and a "Bamboo Grove" cd. for 17825 in 19 and 25 ds. respectively. (Cucura)...Really beautiful cards!
- JAVA:** RRI Djakarta 11790, f/d "Cikar Cow Cart" cd. In 10½ mo. for 3 IRCs. (Conover). 11789 f/d cd. In 6 mo. Glad to get this one! (Routenburg)...This one has been a tough one...Sam.
- KENYA:** Voice of Kenya 4804, f/d aerogramme ltr. In 3 mo. after a follow-up. This was my VIC # 45 from Africa. and # 162 overall. (Routenburg) same in 28 ds. v/s Rashid Bakull. (Glonet) same in 40 ds. for 1 IRC. (Birkhaeuser). same in 23 ds. for 1 IRC. Mr. Bakull was most helpful by sending me their schedule with a rejection on my first report. (Desrosiers). 4934 ltr. in 2 mo. (Barto)...This is not really a new frequency as ZHW2 Radio Kenya was on this channel in the early 60s. QSL was by letter at this time also...Sam.
- KIRGHIZ:** Radio Moscow via Frunze on 11890 w/ f/d cd. In 44 ds. (Kusalik).
- KOREA, DEMOCRATIC REP:** Radio Pyongyang 9977, f/d cd. w/ pennant in 4 mo. Also rcvd. a station pin. (Howard). same w/ "Korean Drama" cd. in 40 ds. w/ pin and two pennants. (Cucura)...How about a copy of one of their pennants for the column?...Sam. 11535 w/ "Oriental House under Moonlight" cd. In 4 mo. w/ pin, schedule and pennant. (Margritz).
- KOREA, REPUBLIC OF:** Radio Korea Suwon 9640, f/d cd. In 23 ds. (Fedor). Jim asks if any of our readers have verified the KBS on 2510? I'm sure there have been a few QSLs for this frequency..Sam.
- LATVIA:** Radio Moscow via Riga on 15220 f/d cd. in 2 mo. (Bares).
- LITHUANIA:** Radio Vilnius 7365, "Bird in Tree" cd. In 89 ds. v/s A. Sinkevicius, Editor in Chief. (Ponder). same for 7360 In 98 ds. (Dalum).
- LUXEMBOURG:** Radio Luxembourg 6090, f/d "Coat of Arms" cd. In 14 ds. for 1 IRC. (Desrosiers).
- MALAYSIA:** BBC Tebrau 9740, cd. rosiers). In 5 mo. (Bares).
- MEXICO:** Radio Mexico 15385, EG form ltr. In 38 ds. v/s Luis Reyes de la Maza. Also rcvd. a pennant. (Routenburg). Radio Huayacocotla 2390, cd. and a personal ltr. In 32 ds. for a SP rpt. and 2 IRCs. v/s Jorge V. Villalobos Grzybowicz. (Dalum). In 40 ds. for a SP rpt. and 1 IRC. Jorge says that the address given in the Feb. FRENEX QSL Column is correct but it is no longer valid. (Cannon). same in 3 mo. for a SP rpt. and ms. Addr: Gutierrez Najera S/N., Huayacocotla, Ver., (Overcamp).
- MONACO:** TWR 7105 f/d blue and white "Map" cd. w/ pennant In 2 mo. (Porter). same in 18 wks. for an EG rpt. (Klein).



(Swaziland - via J. Desrosiers and L. Byron)



Check the next few pages for information concerning the Third Annual New England Area DXers Outing.

MONGOLIA: Radio Ulan Bator 6380, f/d 4x6" cd., blue and gold, in 80 ds. for an EG rpt. Also received a gold, blue and a red pennant. (Swanson)...Very Nice QSL!
MONTSERRAT: Deutsche Welle 11785, "Logo" cd. in 15 wks. for 2 IRCs. Card was sent to Montserrat but reply arrived from FRG. (Cannon). 9545 cd. in 7 wks. via the Montserrat to Koln route. (Alm).
MOZAMBIQUE: Radio Mocambique 3210, f/d "World Map" cd. in 33 ds. for a PT rpt. and 2 IRCs. (Onken).
NETHERLANDS: Radio Netherlands 6165, "Antenna" cd. In 12 ds. (Rascoe).

NEW BRITAIN ISLAND: Radio East New

Britain 3385, f/d cd. In 127

ds. (BITxt)...Station

was received on

a DXpedition.

Radio West New

Britain 2340,

cd. In 36 ds. for

ms. v/s Terrence

Nandali, Acting Station

Manager. (Kusalik).

NEW ZEALAND: Radio New

Zealand 11780, f/d "Fish-

ing Scene" cd. In 55 ds.

for ms. Paper pennant was

also rcvd. (Hoffman). 17710, w/

"Soccer" cd. In 21 ds. for 2

IRCs. (Eastman). 11850, f/d "Statue"

cd. In 21 ds. for 4 IRCs. (George).

15130, f/d "Lake Scene" cd. in 19 ds.

for 2 IRCs. (Doyle). 15130, w/ f/d "Rug-

by Players" cd. In 88 ds. w/ pennant.

(Glonet).

TWICKENHAM DX CLUB 1978 QSL SURVEY

The Twickenham DX Club has announced the publication of its second survey of verifications received by its members. This 16 page publication lists, in country order, broadcasting stations, clandestine and pirate stations, utility and television stations. Details of the frequency verified, band verified, number of QSLs received from the specific station from 1974 to 1978, type of verification, and other information received from the station such as pennants, stickers or decals, and whether return postage is required and the total time needed for the reply are all noted in the survey. The price of the survey from North America is 3 IRCs via surface mail or 5 IRCs via airmail. Orders for the survey should be addressed to: Dave Kenny, Twickenham DX Club, Tennyson Avenue, Twickenham, TW1 4XQ, Great Britain. NOTE: Your Editor has reviewed this publication and found it to be extremely helpful and informative. I highly recommend the survey.

NIGERIA: NBC Maiduguri 6100, f/d form ltr. in 4 mo. for 2 IRCs. (Kusalik).

NBC Sogunle 4990, f/d ltr. In 23 ds. for 2 IRCs. (Prisco). NBC Ilorin 7145,

f/d form ltr. In 4 mo. after a follow-up for 2 IRCs. (Kusalik). NBC Ikorodu

f/d green and white "Flag" cd. In 16 wks. (Margritz). Frequency was 17770. Sorry.

same for 15120 in 140 ds. (Salay). NBC Ibadan 3204, f/d ltr. In 315 ds. (Routen-

NORWAY: Radio Norway 11860 (LLJ), f/d "Coastal Scene" cd. In 17 ds. for burg).

2 IRCs. (Morck). 15175 f/d "Ski Resort" cd. in 2 mo. w/ small flag pennant. (Sapoz-

nikow). same f/d cd. In 53 ds. v/s T. Wohle. Also rcvd. small flag. (Swanson). 11895

w/ f/d "Snow Scene" cd. In 63 ds. w/ flag. (Saaf). 21730 w/ f/d "Ramsøya ved Skottevik"

cd. In 19 ds. for 1 IRC. (Fraser). 11850, f/d "Chalet" cd. (name?).

PAKISTAN: Radio Pakistan 11675, f/d "Minar-I-Pakistan, Lahore" cd. in 41 ds. for 2 IRCs.

(Dalum). 11640 via Islamabad w/ f/d "Fountain" cd. In 44 ds. for 1 IRC. (Burns).

PAPUA NEW GUINEA: Radio Milne Bay 3360, f/d "Map" cd. in 119 ds. for ms. v/s Trevor Wubemo.

Pennant was also received. (Hoffman). Radio Morobe 3220, f/d form ltr. In 8 mo. after a

follow-up for ms. Addr: P. O. Box 1262, Lae, Morobe Province. WRTVH address is incorrect.

(Cannon)...Thank you...Sam. Radio East Sepik 3335, f/d ltr. in 2 mo. for 2 IRCs. v/s

Phillip Koviroma, Acting Station Manager. (Overcamp).

PHILIPPINES: Radio Veritas Asia 11955, f/d "Water Lillys" cd. in 16 ds. for 2 IRCs. v/s

Larissa V. Paner, Audience Relations Officer. The station requires at least 30 minutes

of program details for a verification. (Onken).



HORIZONTE

LA VOZ DE OCCIDENTE
HONDURAS

La 1a. en su radio

La emisora del presente
proyectada hacia el futuro



PORTUGAL: Radio

Portugal 15125, f/d
"Costumes" cd. In 1½ mo.
(Barto). Adventist World
Radio 9670, f/d "Tongue of Fire"
cd. In 6 wks. (Pyatt)...Missed you in
NJ. Hope to see you on Sept. 10th...Sam.

RHODESIA: RBC Gwelo 3396, f/d giant "Map" cd. In 54 ds. for 2 IRCs which were returned (Onken)
ROMANIA: Radio Bucharest 5990, f/d "Peasant Woman" cd. In 79 ds. (Leithner). 11940 w/ f/d cd.
of a "Young Girl of the Banat Region" in 9 wks. Pin and sticker also rcvd. (Sapoznikow).
same f/d cd. In 72 ds: w/ ltr. (Woods).

RWANDA: Radiodiffusion de la Republique Rwandaise 6055, "Station Emblem" cd. arrived in 62
ds. for a FR rpt. and 2 IRCs. (Routenburg).

SABAH: Radio Malaysia 4970 Kota Kinabalu, f/d "Map" cd. in 3 mo. for 3 IRCs. v/s T. V. Lee.,
Chief Engineer. (Poppin).

SARAWAK: Radio Malaysia 4950, 4835 and on 4895 via Kuching, f/d "Broadcasting House" cd. In
10 ds. (1) for 3 IRCs. (Poppin). 4950 w/ same cd. in 34 ds. for 1 IRC. (Glonet).

SAUDI ARABIA: BSKSA-Holy Quran Station 11940, Riyadh, "Crossed Swords" cd. In 9 mo. after a
follow-up for 1 IRC. v/s A. M. Bahtzin. Rcvd. via registered mail. (Overcamp). BSKSA via
Riyadh for 9665, 7220, 9720 and 9730 w/ f/d "Logo" cds. in 2 mo. via registered mail.
and via Jeddah for 9670 in 2 mo. (Barto)...With everything being answered via registered
mail, which is quite expensive (although money may be no object to the BSKSA), I have been
wondering why this station has never come out with a pennant of one type or another...Sam.

The NEW ENG-
LAND AREA DXers
OUTING is getting
to be the biggest gath-
ering on the East Coast. I
sincerely hope to meet many of
our members there. See YOU in Sept.

SEYCHELLES: FEBA , no data "Map"
cd. In 5 mo. (Porter).

SOUTH AFRICA: Radio RSA 11800, f/d

"SABC Radio and Television Center"
cd. In 25 ds. (Grenier).

15155 w/ f/d "Johannesburg" cd.

In 19 ds. w/ magazine. (Rascoe).

Springbok Radio 4810 w/ f/d

"Industry" cd. In 33 ds. (Rascoe).

same cd. In 32 ds. (Sorensen).

SPAIN: Radio Exterior de Espana

11880, f/d ltr. In 20 ds. (Rascoe)

same freq. w/ f/d "Lake View" cd.

In 24 ds. for 1 IRC, which was

returned. (Doyle)...First time

I've heard of REE using a card

instead of a ltr...Sam.11880 via

Arganda w/ f/d ltr. in 49 ds.

(Desrosiers).11775 In 20 ds. w/

a note stating that new QSL cards and a pennant are being prepared. (Desrosiers).

SRI LANKA: SLBC 11835, f/d "Giri" cd. in 43 ds. for ms. (Routenburg).15425 w/ same f/d cd.

In 36 ds. for 2 IRCs. This was after one year and 3 reports. (Onken).same In 17 ds. (Glonet).

same In 1 mo. for 1 IRC. (Klein).The following comes from Mr. Onken: Addr...Mr. J. A.

Herath, Superintending Engineer-Transmitters, SLBC, Torrington Square, P. O. Box 574,

Colombo 7, Sri Lanka (Ceylon).

The address given in the last

FRENCH is also valid. Either

one will get you your QSL.

SUMATRA: RRI *Tanjungpinang* 3225

f/d ltr. In 38 ds. for an EG

rpt. and ms. v/s Masdullah

Eddy. This is my best IN QSL!

(Routenburg)...Congrats!

SWEDEN: Radio Sweden 9695, f/d

blue and yellow "Map" cd. in

20 ds. v/s Gunilla Ginmau.

(Grenier).9590 w/ same f/d cd.

In 22 ds. (Eastman).9745 w/

same cd. in 35 ds. (Rascoe).

9590 w/ same cd. in 19 ds. for

1 IRC. (name?).

SWITZERLAND: SBC 9725 w/ f/d cd.

of the "SBC Buildings" in 35

ds. for 2 IRCs. (Morck). same

In 29 ds. (Fraser).

TAHITI: Radio Tahiti FR3 15170, f/d "Native Girl" - "Nudie Cutie" or whatever In 70 ds. for

1 IRC. (Margritz).same In 22 ds. for a FR rpt and 1 IRC. (Birkhaeuser).

TAIWAN: Voice of Free China 9600, f/d "Chinese Horse Painting" cd. In 5 wks. (Matthews).

17890 w/ f/d "Embroidery" cd. In 84 ds. for 2 IRCs. Pennant was also received. (Routenburg).

15345 w/ f/d "Crape Myrtle" cd. In 93 ds. w/ pennant and sticker for 2 IRCs.

(name?).Pennant was received from the station.This was a vertical blue pennant which is

different from theirred, yellow and black horizontal pennant. (Barto).

TANZANIA: Radio Tanzan-

ia 15435, red and

yellow "Sauti ya

Tanzania" cd. in 96

ds. for ms. (Routen-

burg).same in 387 ds.

for 3 IRCs. (Pineault)

4785 w/ same cd. in

285 ds. (Glonet).

TUNISIA: RTVT 15225 Sfax

f/d "Ile de Djerba"

cd. in 19 ds. for a

FR rpt. (Klein)..This

station also has some

very colorful cards.

Sam...Glad you com-

ing all the way from

Florida for the out-

ing. See you in Sept.

Q. S. L.

Sydney J. Osterman

HOLA

COLON, REP. OF PANAMA

YSS Radio Nacional de El Salvador

San Salvador, C. A.

QSL

FRECUENCIAS:

655 Kcs. Onda Larga.

5980 Kcs. BANDA de 49 mts.

9555 Kcs. BANDA de 31 mts.



LA VOZ DEL BARU

Don't we all wish that one of these
stations will reactivate on shortwave.
It would sure be nice...Sam.

BBI (BROTHERHOOD OF BOOTLEGGERS INC.)
CHAMPIONS OF BOOTLEG BROADCASTING

100 WATTS
 OF TOTAL
 INSANITY

V

oice
 OF THE
VOYAGER

"In The Spirit
 of The
VOYAGEURS"

**SUPPORT
 FREE RADIO**

Your **FREE RADIO** BROADCASTER
 FROM THE **MIGHTY NORTH**

Don

3 TRYING TO "CATCH" (CAN NEVER GET...) I'M SORRY OUR AUDIO
 WASN'T TO GOOD YOUR WAY BUT WE'VE DONE A LITTLE ADJUSTING SO I HOPE
 YOU CAN HEAR US BETTER 735 ← 6000 QX

FREQ **5850** kc.

[Handwritten signature]
 TOP MAN BBI

[Handwritten signature]
 TOP MAN VOV

UKRAINE: Radio Kiev 7150, f/d "Lesya Square" cd. In 11 wks. (Sapoznikow). 7150 w/ f/d "Park of Glory" cd. In 7 wks. (Alm). 7150 and 7215 w/ f/d cd. In 52 ds. (Neff). 7150 In 51 ds. (Fraser). 15095 w/ f/d "Silhouette" cd. In 40 ds. (Rascoe). 4920 in 5 mo. for their GM program. (Bares)... Nice catch!... Sam. Radio Moscow via Vinnitsa on 7130 w/ f/d cd. In 38 ds. Rcvd. my second pennant from the station. The Soviet Union and Mrs. Svetlova do some weird things with their QSLs from time to time. (Desrosiers). via Kharkov on 11975 w/ f/d cd. In 74 ds. for a FR rpt. (Glonet).

UPPER VOLTA: RTV Voltaique 4815, f/d form ltr. In 77 ds. for a FR rpt. and 1 IRC. (Kleln).

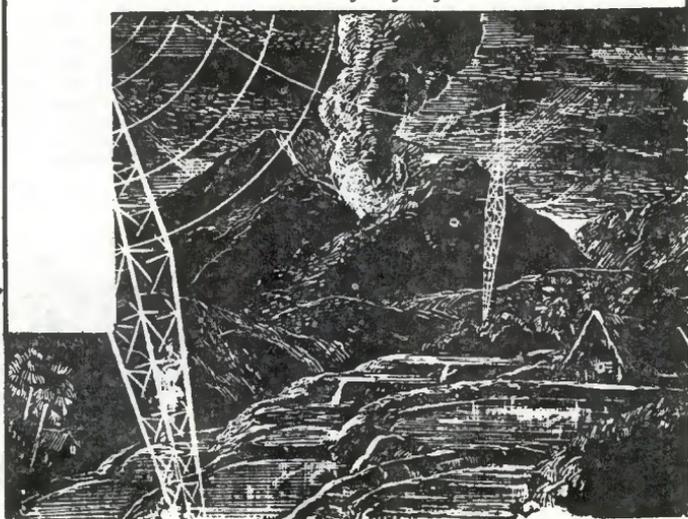
URUGUAY: Radio El Espectador 11835, "Logo" cd. In 3 mo. for a SP rpt. and ms. v/s Jorge Cubillo, Director Apoderado. Rcvd. via registered mail. (Pyatt).

USA: Voice of the Voyager 5850, hand-lettered 1/2 sheet of 8x10" paper (as above). Rcvd. In 1 mo. after rpt. was printed in FRENEX. (Petrvick). same in 1 mo. My first pirate QSL.

(Porter)... Gentlemen, I printed Dans QSL because it was only a 1/2 a sheet of paper. I thank you for all of the xeroxed copies that I received from all the other DXers who have verified the Voyager. Thank you. NOTE: To whom every called me from the Voyager... Thanks! Hope to hear from you at our outing in Sept. Per our telephone call, the Voice of the Voyager may make an appearance in one form or another!!!

Pirate radio is alive here in Watertown. Check 1625 and 3250 for WWTN nightly from 0000 to 0500. Great signals!!!... Sam.

Radio Station YDC 15145 Courtesy: Sydney J. Osterman



USA: WYFR 6155, blue and white cd. In 28 ds. (Sorensen). same
 In 15 ds. (Rascoe). WV 10000 w/ f/d "Indian" cd. in 8
 ds. (Rascoe). VOA DeTano 9565 f/d cd. in 1 mo. (Marg-
 ritz). AFRTS Dixon 17765, f/d cd. In 3 1/2 mo. (Petra-
 vick). AFRTS Bethany 15330, cd. in 144 ds. (Leith-
 USSR: Radio Moscow via unknown sites:
 17720 In 106 ds. (Grenier). 7205 In 7 mo. (Matt-
 hews). 7170, 7190 and 7130 in 6 wks. w/ book-
 lets. (Klein). 17860 In 58 ds. (Kusalik). 5940,
 6120, 7110, 7190, 7200 and 7210 w/ "Birch"
 cds. In 35 ds. (Saaf).

UZBEK: Radio Moscow via Tashkent 15330, f/d cd.
 In 44 ds. (Kusalik).
VATICAN: Vatican Radio 11845, f/d cd. in 15 ds. w/
 personal ltr. from M. Leme, Chief Engineer. for
 2 IRCs. (Morck).

VENEZUELA: La Voz de El Tigre 3255, ltr. in 7 mo. for
 a SP rpt. and ms. v/s Graciela Cedeno, Dpto. de Med-
 los. Beautiful pennant was rcvd. (Pyatt). Radio Juventud
 4900, "Dancing Teens" cd. in 6 wks. for a SP rpt. and ms.
 (Pyatt). Radio Carora 4910, f/d ltr. in 29 ds. for a SP rpt. v/s Carlos Gonzalo Gonzalez,
 Gerente. (Ponder). Radio Yaracuy 4940, cd. in 48 ds. for a SP rpt. and 1 IRC. (Tuchscherer).
VIETNAM: Voice of Vietnam 10040, f/d cd. in 95 ds. w/ a very nice cloth pennant. (Berezowski)
 same in 5 mo. (Matthews). same in 3 mo. w/ pennant. (Alm). 15012 w/ f/d ltr. in 149 ds. (PI-
 WEST IRIAN: RR1 Fak-Fak 4790, ltr. in 35 ds. v/s Swardi B.A. This is my best neault).
 IN QSL!! Station uses only 500 watts. (Kusalik). RR1 Sorong 4875, f/d cd. in 68 ds. for an
 IN rpt. and ms. Arrived via registered mail. (Routenburg).

YEMEN ARAB REP: Radio Sana'a 9780, f/d ltr. in 25 ds (!) for a FR rpt. and 1 IRC. (Klein).
YUGOSLAVIA: Radio Belgrade 15240, f/d foldout cd. w/ picture of "Budva" In 246 ds. for 1
 IRC. (Desrosiers). Radio Yugoslavia 9620 (station must be using two different names), f/d
 cd. in 54 ds. (Blitx).

NOTE: Only 102 countries this month gang but there are plenty of fine QSLs. Reports are
 probably falling off a bit due to vacations.... See you next month with everyone's
 favorite country...BRASIL. Next month we will highlight this Latin nation...Sam.

NEW ENGLAND AREA DXers OUTING: Status Report (Sunday Sept. 10th).

Although we are still 10 weeks away from the Big Day, the following have expressed
 a definite interest in attending: NASWA publisher Bill Oliver and his wife will be
 arriving on Saturday with Jon Cohen and his wife. Nick Pappas will be coming along
 with Bill and Jon. NASWA "A" Editor Dan Robinson will come up from D.C. NEDS Editor
Hank Michalenka will come from R.I. as will Al Brooks and his whole family. Al is
 a SPEEDX Editor and NEDS co-editor. ECDXA Editor Bob Pinchuk is coming from N.J.
 From MA. we have Pete Schipelliti and Bob Butterfield. Dave Klein is coming up from
 Florida. Lex Smith will arrive from NYC. From the CT. area we have Joe DiLeo and
 Gregg Peters. Both gentlemen will bring their spouses. Gregg Bares, Al Plotnick and
 Steve Porter are also coming from CT. Former NASWA Editor Al Sizer will also be
 present at the outing.... This totals over 30 people so far and I know that I will
 still be hearing from dozens of others who attended the last outing... Remember see
 YOU in September... For further information contact your NASWA QSL Editor...

Till next time.....wishing you a great summer and plenty of static free DX...

QUESTION BOX: We received a great many replies to last months
 puzzle. None had the correct answer. The emblem was from
Emissora Radio Clube do Beira from Mocambique.... Sam.



XEQM - 6105

TUS PANTERAS

Sam



RADIO Reloj

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T-I-H-B-G-6006 KC.
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update

July 1978 Number 22

Tom Alleman
615 W. 43rd Terr., Apt. 6
Kansas City, MO 64111 USA
(816) 931-5943 2330-0300

UPCOMING DEADLINES: 12 July (Mid-July); 24 July (August); 11 August (Mid-August)

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

BOLIVIA R. Viloco, 3340, in SP 0120-0300+ on 15 June. Expected this to be R. Tropical, but many mentions of Viloco in about an hour forced me to conclude that it was in fact R. Viloco. M anncr, standard LA fare. Full ID--finally-- at 0248. First log of this one. I like it.

(Neal Perdue, ALA) *** So do I, Neal. Congratulations. tba *** R. Panamericana, 6035, in SP 1047. Mx very similar to a Peruvian. "B. Dias Bolivia" px. Fair. (Jack Jones, MISS; 6-10)

BRAZIL R. Journal do Brazil, 4875, in PT 0023-0028. Song by Johnny Rivers, piano songs, M anncr w/ ID, TC, freqs and anncmts 0028. Then orch mx w/ F vocalist. (Bill Whitacre, MI; 6-4) +++ R. Cult. de Bahia, 4895a, in PT 0010-0020 w/ jingles, talk by M, full ID. Best ever on a fine Brazilian night. (Perdue, ALA; 6-15) +++ R. Capixaba, 4935, in PT 0005-0025. Best ever on 14 June. Loud and clear w/ usual LA and accordian tunes, M anncr, reverb IDs. Many mentions of Vitoria, not noted in previous logs. (Perdue, ALA); Capixaba also noted 6-4 in PT at 0045+ w/ M anncr, singing IDs, ads, and local pop mx. (Whitacre, MI) +++ R. Cultura, 5015, in PT 0037+ w/ talks, mentions of Cuaiba, then ID and organ mx. Fair in het and QRM. (Whitacre, MI; 6-4) +++ R. Aparecida, 5035, in PT at 0030. "We are the Champions" by Queen, ID by M, TC, voice over intro into each record, then disco mx. (Whitacre, MI; 6-4)

CHILE Voc moves around so much that it's a wonder that they have regular listeners. Have noted them as follows: at *1100 on 15125, 15110, 11755, w/ 5 min. of local mx, then EG comment. At 0000, on 17800, 15175, 11890, w/ local mx and commentary at 0005. On 12 June noted 15140 // 15175 for evening tx, but 15140 not in use two days later. On 9 June, heard them on 11765 at 0300. (Bob Zilmer, WI) *** with the kind of px they usually have, it may be smart to keep moving so much. tba

COLOMBIA R. Guatapuri, 4815, in SP at *0928; LA mx, NA at 0930, ID, calls, freqs; typical LA px. (Jones, MISS; 6-9); Guatapuri also noted at 0245 in SP w/ ID by M and nx. Heard regularly. (Orloff, NJ) +++ Em. Nueva Granada, 6160, in SP 0227. Presumed to be the one here.

Could not snag an ID. Destroyed by RN 0230. (Orloff, NJ) +++ Ondas del Orteguaiza, 4975, in SP *0937 w/ NA, ID, chimes, LA mx and bad ute QRM. (Jones, MISS; 6-9)

DOMINICAN REP. RTVD, 5975, in SP 1033. W & M alternating w/ nx items. Still flipping coin: heads, 5970; tails, 5975. (Jones, MISS; 6-10)

ECUADOR R. Paz y Bien, 4820, in SP at *0916 w/ continuous waltz mx over SP numbers stn on 4822A to 0919. ID, day's sked 0927. (Jones, MISS) +++ R. Quito, 4920, in SP 0015-0025 w/ LA mx, M anncr, some local mx. ID: "Desde Quito, Radio Quito." Mixing w/ presumed R. Progreso. Typical of occasional early HC opening here. (Perdue, ALA)

EGYPT Cairo, 9475, in AR 2322. W singing in presumed AR. She held one note for 20 sec. Whew! (Orloff, NJ)

ENGLAND BBC, 9410, in EG 2250 w/ World Cup nx and odds on each team. Odds on Iran were given as 10,000 to 1. Should make the Shah mad. (Orloff, NJ)

GREECE EIRT, 11730, in EG 0000. Good level but poor quality. //9760. (Orloff, NJ)

HUNGARY Budapest, 15225, in EG 0223-0230 w/ px on arts in Hungary, NA followed by Hungarian tx at 0230. Excellent sigs. (Holmes, COL)

ISRAEL IBA, 9435, in EG 2254. "Round and About" px, sked and into Hebrew 2300. Very good sigs. (Orloff, NJ); IBA also noted on 15230 in EG at 2230. This is a low power tx used under

Cuba so that Cuba will be jammed if IBA is. // 17710, 17685, 15485, 11655, 9815, 9435. IBA also noted at 2230 on 17710 in EG to NAM under VOA sometimes at fair level. (Zilmer, WI)

ITALY RAI fouls up again! On 14 June, *0100-0115+, the EG px on 15315 and SP on 15385 were combined and transmitted on 15245 // the other two freqs. It must take a special effort to be confused so frequently. (Richard Utter, NY) *** Touche'. tba

JAPAN RJ still poor on 17755//17825 from 0140-0209 t/out in EG w/ px on communication system followed by mx. Also noted 1333-1345* in CH w/ JP lang lesson. Freq 9675. Good. (George Holmes

COL) RJ also noted on 17755 and 17825 at 0140. EG lang "Hello America" show. Poor sigs. First log of them in three years. (Orloff, NJ)

LEBANON RL, 11965, in EG 0250 w/ talk by M and rock mx. Very good. (Jim Fedor, CAL)

LITHUANIAN SSR R. Vilnius, 12060, at 2305. Folk-work songs, sports nx. Gave sked as 665, 1106, 1554, 6100 at 1030; 11780, 11790, 11870, 12060, 15180, 15405 at 1100. Into possible Mayak at 2330. (Orloff, NJ)

NETHERLANDS ANTILLES RN, 15040, in DT at 2310, putting a fair sig here during DT church service on Sun 28 May. Not audible on other days when in PT. This appears to be a transmitted mixing product, 140 kHz below 15180, which is also 140 kHz below //15320. The fact that 15180

NETH. ANTILLES, cont'd: is beamed toward NAM rather than Brazil accounts for the spur being audible on Sundays only. (Glenn Hauser, TN)

NEW IRELAND R. New Ireland, 2428, in Pidgin at 1250 w/ annmcs, ID by W and island mx. (Fedor, CAL)

NORWAY RN, 11895, in Norwegian 0458-0504 on 8 June. Excellent sigs and annncd EG on this freq at 0600. (Holmes, COL)

PAKISTAN RP, 15110 NF, at *1100. Nx in Special EG at 1104. Items are read at regular speed, w/ each sentence repeated and punctuation and paragraphs mentioned. Must be a move from 15115. QRM from Chile after 1100 which eventually covers this. (Zilmer, WI)

PAPUA NEW GUINEA R. Western Dist., 3305, in EG at 1300* w/ s/off annmcs, next tx time, many IDs, usual closing theme, which is probably their NA.+++ R. N. Solomons, 3322, in EG 1200 w/ some talk in Pidgin. Island mx, good sigs. +++ R. E. Sepik, 3335, in EG to 1306*. S/off annmcs 1300, many IDs, NA, finally off 1306. +++ R. E. New Britain, 3385, in EG and Pidgin 1130 w/ annmcs and IDs. MoR mx. (All from Jim Fedor, CAL) +++ After hearing on DX Digest that Pt. Moresby had moved to 4760, a check on 12 and 13 June showed them back at the old stand, 4890, w/ fair sigs from 0930-1000. (Utter, NY)

PERU R. El Sol, 5970, in SP 1043; Peruvian mx, favorite little husky voice annrc back at mike. Untroubled by RTVD, but still some carrier hum. (Jones, MISS; 6-10)

SINGAPORE RS, 11940, in EG 1607-1618 w/ mx and EG. Fair sigs. (Holmes, COL)

SRI LANKA SLBC, 11835, in EG 1100 w/ nx and comment. //15120. (Zilmer, WI)

SURINAM SRS, 4850, in vern(???) at 0832. Asian mx & singing. Short EG ID by W. "Good morning everybody, SRS." Possibly *0830. Good sigs. (Jones, MISS; 6-9)

SWEDEN RS, 17735, in EG to EAsia 1230, replacing 15240 and // 21690. Re report in UD 19, RS has only one EG freq at 0030, which is 11905. 11705 not skd for EG but they occasionally forget to throw the right switch. (Zilmer, WI)

USA AFRTS, 17775, mixing w/ France at 1517 on this special freq for Indy 500 coverage(28 May only). // 15330, which is usually silent at this hour. (Hauser, TN) +++ UN Radio, 15240, a surprise a 2259 closing EG nx quarter hour to Caribbean on 23 May. Formerly Fri. only, here because of Gen. Assembly special session. (Hauser, TN) +++ WMMR(Pirate), 7450, ar 0145 w/ Beatles mx. ID at 0158 as Midwest Mx Radio. 0200*. Sounds like its close by. (Zilmer, WI) +++ VoVoyageur, 5850, at 0414 t/in w/ at least two M DJs, mx including "Heartless," "Suite Madame Blue," and "Thunder Is." ID as "VoV, coming to you on 5850 kHz." Mentioned Hauser, Walcutt, Barto, WMMR pirate. Phone number of (212) 626-9906. 0505*. Good sigs. Am very happy w/ this. Pse QSL if you're out there. (Terry Krueger, 84 S. Winter Park Dr. Casselberry, FL 32707); VoV, 5850, IS 0357, *0400; "We Will Rock You", VoV ID freq; 0414 mx, at 0419 gave (212) 626-9906 phone in number. Got through, was asked if I'd received QSL yet and was told one was on the way. Bootleg Broadcasters Int. ID, 0435. Mentioned Barto's address for possible reception reports. "Thunder Island" song at 0440. 0505*. (Bob Butterfield and John Clements, MASS); VoV, 5850, in EG at *0403. Guitar IS, "We will rock you", another song, then "We are the Champions." Annrcs sang along at end. ID as "From a studio located one mile north of nowhere, the VoV." Gave power as 100w. Used (212) 626-9906 number for phone ins. (Bill Yohana, 23 Blue Spruce Dr., Upper Saddle River, NJ 07458)

VENEZUELA R. Bolivar, 4770, in SP 0238 w/ jingle ID, mx. Very good. (Orloff, NJ) +++ R. Maracaibo, 4860, in SP 0054 on 4 June w/ vocals by W, ID as "R. Maracaibo, mas Musical!"; may have given phone number before this ID. (Whitacre, MI)

FROM OUR CONFIDENTIAL SOURCE: VoVoyageur called me at 0106 on 19 June w/ the following bulletin: at 0420 on 18 June they received a call on their telco loop from Ruddy Edelwich, in Newcastle, England. According to his report, VoV came in w/ good sigs but there was some UTE QRM. Ruddy thought VoV was a Euro pirate and was quite surprised to find out that it was in NAM. My caller said that VoV will be off air for a short vacation from 24-26 June. My caller said he was leaving VoV for a hitch in the Army. Would not be surprised to hear him turn up on AFRTS. Tnx for the call, guys. tba

ANARC FRC REPORT from Bob Zilmer: Several freq changes cabled to R. Sweden were rejected at first, e.g. my first choice of 15205 at 2300. Further correspondence from FRC convinced them to try it. It's a good feeling to have a country actually take the advice of our small committee and see the results enjoyed by everyone.

WRTVH 1978 LATIN UPDATER from Victor Jaar, PQ: Belize: RB is on 3285, not 3300. Costa Rica: Fewer stns actually on SW. Dom. Rep.: NEW stn, R. Jimani ("La Voz de la Provincia de Independencia) has been testing since 1 Feb 78 on 1100 w/ 1 kW. Probable call: HIRJ. Sked 1000-0200. Info from owner and cousin, Rodolfo Lama Jaar. R. Barahona, 1240, uses 5 kW, up from 1 kW, since 21 Jan. Plans include use of 4930. WRTVH listing of R. Mil on 4940 is wrong. They're on 4930. R. Nebya call is HIPK, not HIFU as listed in WRTVH. R. Pedernales, 1560, now w/ 1 kW, up from 0.5 kW. EL Salvador: Despite listings, no currently active SW stns. Fr. Guiana: Cayenne is on 3385 w/ *0900. WRTVH is wrong. Haiti All stns listed on SW in WRTVH are silent. 4 VEH silent for several months now. R. Citadelle, 6155, last Haitian to be noted on SW also gone. Some Haitians have been silent for 10-15 years, others never went on. WRTVH desperately needs updating. La Voix Revolution Duvalieriste back on MW for some time w/ new name 4 VRD, R. Nationale. WRTVH has confused this one w/ former stn of same name. More WRTVH Updater next month. My best to all,

73,

Tom

log report *section*

1600-4899



DAN ROBINSON

NOTE NEW ADDRESS

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It seems we have really hit the summer doldrums with reception on the low bands leaving much to be desired. But as shortwave usually proves, there is always something new and

shall we say, out of the ordinary. . . Uganda's test transmissions or the Voice of the Voyager. Of primary importance, an apology to IR-A readers for last month's absence of this column, which was due to a number of factors. The 1978 ANARC Convention to be held in Montreal promises to be quite exciting--I will be NASWA representative in Montreal and hope as many FRENCH contributors as possible will make it. NASWA Ace Pitt McNeil has been nominated as a candidate for North American DX'er of the Year, and Isao Ugusa of Japan as International DX'er of the Year, announcements of which will no doubt appear elsewhere in FRENCH. PLEASE TAKE NOTE OF MY ADDRESS CHANGE, effective until further notice but still only a temporary change. . . My nomination for Technical Achievement Award goes to the Uganda Broadcasting Corporation (for those who have heard there latest offerings).

- 2340 PAPUA NEW GUINEA R.W. New Britain: 1231 in Pidgin w/group songs, C&W (Poppin)
2390 MEXICO R Huayacocotla: 0209* SP, s/off anmts saying would be back at 4p.m. (Jones 6/6)
2415 CHINA Wenzhou HS: M with long tlk at 1216 (Uerlings 5/17)
2428 PAPUA NEW GUINEA R. New Ireland: 1241 in Pidgin w/group songs (Poppin 6/3)
1220 M with island mx, vocal with strings/drums (Uerlings 5/17)
2475 CHINA Zhejiang HS: CH W w/long talk (Uerlings 5/17)
3210 MOZAMBIQUE R. Mocambique: 0340-0405 PT, W in tlk, instr and local mx, 0401 EG ID, strongest sig on 90 m with high QRN level (Novello 6/7) Welcome to IR-A.
3215 SOUTH AFRICA SABC: On a new frequency in mid-May and beginning of June, 0422 w/EG ID (Poppin 5/15)
3215 CELEBES RRI Menado: 1254 IN, W ancr, some string mx; 1259 SOC and mx 1300 (Poppin 6/3)
3235 BRAZIL RC de Marilia: 0036-0110 PT, tlk and LA type mx, "Marilia" ID, anmts with echoes; listed only 500 w but almost only sig on 90 m. band here (Osterman)
3250 KALIMANTAN RRI Banjarmasin: 1304 IN w/M vocalist and inst accompanying (Poppin)
3275 PAPUA NEW GUINEA R So Highlands: 1244 Pidgin w/M vocalist, C&W mx (Poppin)
3289 MALAGASY REPUBLIC R Madagascar: *0300-0313 w/anthem and local mx, armchair copy on 5/25 (Barto)
3290 GUYANA GBS: 0736 EG/Hindi? w/IS on guitar and into Indian music (MacKay 5/11)
0840 EG/Hindi, TC, EG tlk, Hindi song, CW QRM (Osterman 5/11)
3297 VENEZUELA R Trujillo: Nominal 3295, 0437 SP, w/continuous mx and IDs (Poppin)
3300 GUATEMALA R Cultural: 0150-0205 SP, orchestral mx, weak sigs (Alexander 5/24)
0315 EG religious pgm (Swanson) 0410-0426 EG rel pgm (Berezowski 5/31)
3305 PAPUA NEW GUINEA R Western District: 1241 Pidgin w/Western mx, "Galveston" (Uerlings 5/17)
3315T BRAZIL R Asuncao: 0117-0132 PT w/lcl pops, M ment'd Sao Paulo; poor in QRN; nothing reported here in over a year (Krueger 6/3)
3325 VENEZUELA R Monagas: 0905 SP, pop mx (Prath 5/14)
3325 IRIAN JAYA RRI Jayapura: 1316 IN w/ment's of "Berita" and tlk by M; band mx and chorus (Poppin 6/3)
3335 PAPUA NEW GUINEA R East Sepik: 0935-1000 Pidgin, tlks by M, lcl mx and vocals w/nx at the hour, F (Salay 5/30) 0941 M in Pidgin and mx (Poppin)
3345 KALIMANTAN RRI Pontianak: 1334 IN, W vocalist and guitar, M vocalist in IN (Poppin 6/3) M & W in tlk, Ternate or Pontianak??? (Uerlings 5/17) --Last rptd as Ternate in May IR-A. . .DR
3364 IRIAN JAYA RRI Sorong: 1341 IN, W ancr in IN, short guitar and anmts (Poppin)
3385 PAPUA NEW GUINEA R East New Britain: 0910-0930 Pidgin tlks by M, local pop mx such as "My Mamma Done Told Me" and "Everybody's Wearing Blue Jeans" 0930 TC and nx by W (Salay 5/30) 0946 Pidgin, group songs, CW theme (Poppin 5/31)
3390 ECUADOR R Zaracay: 0330 SP with LA pops and vocals (Robinson)
3396 RHODESIA RBC: 0403 EG, M w/nx, Poor (Osterman 5/19)
3414 SUMATRA RRI Medan: 1232 IN, many IS type tones 1230, into M in tlk/nx (Uerlings)

- * 3482 BOLIVIA R Padilla: 0009-0025 SP, M w/trlk, flavorless ballads, W DJ ment'd Bolivia, F (Krueger 5/27) Noted here with the following-"Veinte horas, treinta minutos. . . desde la capital de la provincia de Comina (?), transmite Radio Padilla" TC's mixed with beautiful vocals and guitar at ear-crashing level on 5/26--DR
- 3952 GT BRITAIN BBC: 2200-2230, EG world nx, World Today, 2230* (Smallwood)
- * 3960T CELEBES RRI Palu: 1320 IN, chorus, M ancr followed by slow rock; ID per Foster of Australia (Poppin 5/10)
- 3985 SWITZERLAND SBC: 0600 GM ID and mx, IS to 0615; 0615 Italian nx, features; 0630-0640 FR mx; Swiss country mx 0700 w/EG ID (Smallwood 5/1)
- 3985 IRIAN JAYA RRI Blak: 1425 w/M&W in tlk, into mx (Poppin)
- 4680 ECUADOR R Nac de Espejo: 0300 SP, dramatic pgm, lots of sound effects, shots, sirens, woman weeping, man weeping, etc. (Eastman 5/8) 0448 SP, w/hot latin rhythms, ads, echo ID (Pappas 5/24) 0105 SP, mx, tlks, ID (Tannerwald 5/27) Andean mx pgm 0423 (Kamp 5/13)
- 4699T JAVA R KIP Surabaya: 1N at 1325 w/M and arnts, flute mx (Uerlings 5/23)
- 4719 CELEBES RRI Ujung Pandang: M in tlk, mx at 1329 (Uerlings 5/23)
- 4724.5 BURMA BBS: M in long tlk at 1331 (Uerlings 5/23)
- 4755 COLOMBIA Em Nuevo Mundo: 0458 SP, inst version of "More, More, More" (Mas, mas, mas...); Pepsi ad, CARACOL IDs, mx 0501 (Pappas 5/24) 0800 w/pops and M DJ (Prath 5/13) 0935 mx, tlk, ads (Tannerwald 5/26)
- * 4760NF PAPUA NEW GUINEA NBC: 0935-1000, EG/Pidgin; interview by W, island mx and pops, TCs; 4890 silent--wonder why the change in frequency? (Osterman 6/4) 0910 EG w/usual, mx, tlk, mx TC/ID at hour (Salay 6/4) 0900 EG/Pidgin (Owen 6/3) 1356 w/TC and ID (Poppin 6/5)
- 4765T BRAZIL Emisora Rural: 0925 w/mx pgm, weak sigs; guessing ID since this and 4805 only Brazilians heard on 5/16 (Field)
- 4770 VENEZUELA R Bolivar: 0400-0430 SP, excellent sig w/pop mx, ran past WRTH listed s/off time of 0400 (Jcrdan 5/11) 0110 SP, LA mx and ads (Tannerwald 5/28) 2350 w/mx (Pyatt 6/3) 0956 w/LA mx and singing ads (Poppin 5/31)
- 4785 COLOMBIA Ecos del Combeima: 0610 w/slogan ID, ads, promos (Kamp 5/10) 0810 SP, mx, tlk, plenty of IDs (Tannerwald 5/24)
- 4790 PERU R Atlantida: 0532 w/Andean mx pgm (Kamp 5/14)
- 4795 ECUADOR LV de los Caras: 0357 SP, rock mx, short and distinct ID, more rock after (Jones 5/18)
- * 4796.2 BOLIVIA R Nueva America: Best heard in ages, upbeat folklorica tune, M&W ancrs, very frequent IDs, at least one a minute, and a big taped one at 0200. HET de Caras on 4794.5 (McNeil 5/27 via TDXN 91)
- 4800 VENEZUELA R Lara: 0115 SP, LA mx, ads, ID (Tannerwald 5/17)
- 4800 ECUADOR R Popular: 0717 Andean mx pgm (Kamp 5/14) 0820 SP, local vocals with guitar, W DJ, ID as "Radio Popular" (Tannerwald)
- 4805 BRAZIL R Amazonas: 0915 w/mx pgm, Weak and static (Field)
- 4810 GALAPAGOS LVG: 0305 w/mx pgm, ID 0320, F (Field) ID, TC, request pgm 0437 (Kamp 5/14)
- 4810 VENEZUELA R Popular: 0252 SP, 0255 ID (Poppin 6/4)
- 4815 COLOMBIA R Guatapuri: *0928 SP, LA mx, NA 0930, ID, calls and freqs (Jones 6/9) 0250 w/mx and M ancr (Pyatt 6/6)
- 4815 UPPER VOLTA Rdif Voltaique: 0535 in lang, M w/short tlk, drum mx (Uerlings)
- 4820 ECUADOR R Paz y Bien: *0916 in SP, continuous waltz mx over SP numbers stn on 4822 until 0919; ID and day's sked 0927 (Jones 6/9)
- 4820 HONDURAS HRVC: 0300-0500 EG w/religious pgms, ID 0300; ID and s/off 0500 (Small wood) 0435 EG, M w/religious pgm, QRN (Klein 6/2) 0340-0350 EG, (Eastman 5/26)
- * 4823 BOLIVIA R Grigota: 0130-0146 w/SP tlks, much instrumental and local vocals, ment'd Santa Cruz (Barto 6/4)
- * 4825 GUATEMALA R Mam: 0258 SP, M vocalist in SP, group songs; apparent s/off 0300 and listed 0300* in TBS (Poppin 6/4) 0120-0140 SP, tlks by M w/xylophone, mx, trumpets and many IDs by W 0130 (Salay 6/4) 0255 w/Catholic religious service, M&W in tlk; stronger than HRVC 4820 (Field 6/4)
- * 4830 THAILAND R Thailand: At 1340 w/oriental type mx and chanting by W (Uerlings 5/23)
- 4832 COSTA RICA R Capital: SP versions of US rock, 0641 (Kamp 5/26)
- 4835 SARAWAK RM: Bahasa Malaysia tlk on Aldo Moro's death (Kamp 5/12) Time is 1215..
- 4835 BRAZIL Rdif Roraima: Two listed here, QRM probably fm Teresina; mx pgm 0320 with good sig (Field 6/4)
- 4840 VENEZUELA R Valera: 0325 SP, guitar mx with many IDs (Saaf) 0941 w/long run of ads, jingles, ID, "primer lugar de sintonia...", and more ads (Jones 5/20)
- 4845 COLOMBIA R Bucaramanga: 0250 SP, W ancr and tlk (Alexander) 0315 w/mx (Pyatt)
- 4845 MAURITANIA Nouakchott: At 0000* and 0613 AR tlks, guitar mx, chants (Poppin, Alexander)
- 4845 MALAYSIA RM: 1449 w/vocalist in Indian lang (Poppin)

- 4850 SURINAM SRS: Ancient U.S. song 0325, Dutch tlk 0330, s/off (Kamp 5/29) 0832 Asian mx and singing, W with short EG ID, "Good Morning everybody, SRS"(Jones)
- 4855 BRAZIL RC do Para: PT tlk by M 0643 (Kamp 5/25)
- 4855 SUMATRA RRI Palembang: 1312 M in IN tlk possibly //4875 (Uerlings 5/20) 1407 IN nx by M (Poppin 6/3)
- 4860 PERU R Chinchaycocha: 0010-0020 SP, local folk mx (Alexander 5/17) 0400-0530 w/mx, IDs (Field) Andean request show 0559 (Kamp 5/10)
- 4860 VENEZUELA R Maracaibo: S/off 0357 w/anct, NA (Kamp) 1010 w/nx by two M (Poppin)
- 4870 BENIN LVR: 0518 FR, ID, "live" political speech, lcl mx (Pappas 5/23) 0550(Kamp)
- 4875 IRIAN JAYA RRI Sorong: 1310 IN, W with anmts, then long tlk (Uerlings 5/20)
- 4875 COLOMBIA LV del Norte: 0055 SP, LA pop mx w/tlks by M, ID 0101 (Salay)
- 4875 BOLIVIA LA Cruz del Sur: 0128 SP, tlk by W, classical piano and orch (Salay) EG w/religious pgms, EG/SP ID 0130; Back to God Hour to 0159; ID, freqs and address 0200; into SP w/religious pgms (Smallwood)
- 4880 VENEZUELA R Universo: 0020 SP, pop mx, M ancr, ID (Prath) 0240 LA mx, M DJ, vocals and guitar mx (Alexander) 0125 LA mx and ads (Tannerwald) 1015 TC(Poppin)
- 4883 W. GERMANY DW: 0147-0149 w/EG ID and address; this freq not mentioned with others (Barto 6/4) Don't believe this is still here--DR.
- 4890 PAPUA NEW GUINEA: NBC: 1250 EG, M w/ads and ID (Rascoe 6/2) Welcome to LR-A1 0838 M w/sportscast in EG (Brookwell) 1019 TC, "TANG" ad (Poppin 5/31) As of June 1st, believed back here from 4760--DR
- 4896 BRAZIL R Cultura da Bahia: 2350-0002 PT, M ancrs, LA mx and "Cultura" ads, F (Krueger 5/25)
- 4900 VENEZUELA R Juventud: 0957 SP, sign on, full ID, mx and tlks (Tannerwald)

That's it for this time around, with just a couple of additional items. . . One report from Uerlings states that RRI Jayapura is now on 4755 (or was on 5/23), heard 1334 with Indonesian tlk by a man and 2 IDs. Other reports from Australia have suggested this stn is actually Ujung Pandang. See the one missort below. . .

- 4789.4 IRIAN JAYA RRI Fak Fak: 1158 IN, W ancr, guitar piece, ID 1201 and into world mx (Sarrazin 5/1)

Not being one to waste space, I'll carry on a bit longer. . . The new SONY 6760 receiver with digital readout is in the SONY catalogue but is not in Washington area electronic shops--it probably won't be for some time. . . Summer crowds here are mobbing the amateur radio and SWL exhibit at the Smithsonian Museum of History and Technology which has more equipment than any amateur could possibly want. The exhibit is at the very end of the 'Nation of Nations' exhibition, and includes some beautiful pennants from the collection of NASWA member Roger Legge, as well as continuously running tape loops of the IBA and Voice of America. At least they are supposed to be continuously running--the operators of the Ham station often forget to switch them on.

Yours truly was the recipient of a journalism scholarship from Sigma Delta Chi, the Washington Society of Professional Journalists for my upcoming senior year at American University. . . Sat next to Howard K. Smith and other notables at the awards banquet. . . Other than that, much the same here in the nation's capital. The drudgery of rubbing elbows with embassy officials, newspaper editors, and USIA (sorry, ICA) employees continues. I am, obviously, a strong advocate of spending college years in Washington, D.C.! Another award before departing, this time to the Voice of the Voyageur -- for Graphic Composition and Technical Perfection in QSLs. . .

Until the next LR-A, 73's

DAN

HELPING HAND: For sale. Drake SPR-4 with 23 crystals, RTTY option, noise blanker option. Excellent condition. Price \$625.00 or best offer. Also Ameco Fet preamplifier Model PLF, 1.8 to 54 MHz. Only \$25.00. Excellent condition. Contact Steve Handler, 3330 Old Mill Road, Northbrook, IL 60062. Telephone (312) 433-2802 days; (312) 498-1403 nights.

HELPING HAND: For sale. FRG-7 with 4 kHz MuRata ceramic filter by Gilfer. No fine tuning. Price, \$210. For sale. Panasonic RP-2800 portable with 5 digit frequency counter for the 3.2-30 MHz section. Price, \$160, UPS prepaid. Certified check or Postal Money Order, please. Wilder A. Pickard II, 1452 Oak Avenue, Evanston, IL 60201.

log report *section*

4900-6199



STEVEN WISEBLOOD

- 4904.5 CHAD RVT: Afro tribal chanting, M in lang w/arnts 0450 (Uerlings-CR).
4908 CAMBODIA R. Phnom Penh: 1347 oriental chanting by lone M (Uerlings-OR).
4915 GHANA GBC: 2240-2255 Afro mx, W w/ EG nx, then into religious mx (Alexander).
0600-0606 Station ID, into EG nx (Miller).
4920 AUSTRALIA ABC-Brisbane: 0920-0930 Classical mx, TC's and arnts(E. Miller).
1425-1402* Jazz pgm, Australian nx 1355 and s/off w/anthem at 1402* (Klumb-CA).
4920t VENEZUELA R. Caracas: 0055 SP sports, references to La Voz de Carabobo at 0103 with "R. . . presento" at 0110 and SP nx. (Field).
4921v ECUADOR R. Quito: 0230-0402 Ecuadorian mx, ID, TC's and SP talk(Jones-MS, Pyatt).
4925 COLOMBIA Em Meridiano: ID at 0340 same as on other stations of the same network, ". . . somos. . . profesionales. . ."; followed by musical pgm (Field).
4930 VENEZUELA La Voz de la Fe: SP pop mx 0035, M announcer in SP (Prath). (Kamp/
4930 DOM REP. R. Mil: 2350 W SP vocalist, M in SP, TC (Novello-NY). 0441 LA mx, TC, ID/
4935 BRASIL R. Capixaba: 2320-0055 ballads, LA mx, ads, PT talks, ID's.(Barto, Field).
4940 VENEZUELA R. Yaracuy: 1028 vocal mx, SP comments and ads (Poppin).
4945 COLOMBIA R. Colosal: 0900-0915 "Musica Latino-America y Noticias" (E. Miller).
0644 usual LA vocals (Kamp).
4950 SARAWAK RMS: 1037-1215; M in CH, CH ads, then EG pgm (Kamp, Poppin).
4965 COLOMBIA R. Santa Fe: 0900 pop mx and many ID's (Prath).
4965 BRASIL UnID (two listed): 0055 PT sports, bad het o/R. Santa Fe (Field)
4970 VENEZUELA R. Rumbos: 0420-0445 ID's, ads and network promos, LA mx (Jordan).
4975 COLOMBIA Ondas del Ortegaza: *0937 NA, ID, chimes, LA mx, UTE QRM (Jones-MS).
4980 VENEZUELA Ecos del Torbes: C212 SP jingle (Saaf). (Novello/
4985 BRASIL RB Central: 2305-0319 MoR mx, several ID's, PT talk (Alexander,Poppin,/
4990 VENEZUELA R. Barquisimeto: 0207 ID's and LA mx (Saaf).
4990 NIGERIA NBC-Lagos: 2300 W w/EG nx(Alexander). 0500 EG nx read by W(Pappas).
5005 SARAWAK RMS: 1453 W in lang w/cmtry, C&w type mx and band mx (Poppin).
5010 COLOMBIA R. Surcolombia: 0315-0430 Colombian mx w/male host, ads (Jordan, Pyatt).
5010 CAMEROON R. Garoua: 0445 W in AR w/talk, Afro chants w/drum mx(Pappas).
5015 UNID 1420 SP tenor, 1428 W in SP sounding lang (Poppin) I'd guess a special pgm from Vladivostock, but why in SP? -SCW
5020 COLOMBIA Ecos del Atrato: possible ad 1049, M in SP, partial ID (Poppin).
5020 PERU R. San Cristobal: 1035-1050 SP talk, LA mx and ads (McCants).
5025 BRASIL R. Borborema: 0815 PT talk and Brazilian vocals (Tannenwald).
5025 ECUADOR R. Splendit: SP talk, TC's, ads and LA mx (Tannenwald).
5030 SARAWAK RMS: 1055 slow orchestral mx, ID by M 1100, nx in lang (Poppin).
5038 CENTRAL AFRICAN EMPIRE LVoZ d'Empire Cent.0438 M in FR, Afro choral mx(Pappas).
5040 VENEZUELA R. Maturin: 0005 MoR SP vocals, ID, super promos. Good (Novello-NY).
5045 COOK ISLANDS Cook Islands BC: 0810 M in lang w/long talk. Poor-Fair (Uerlings-OR).
5047 TOGO R. Togo: FR talk, Afro mx (Kamp 5/14).
5060 ECUADOR R. Progreso: Andean mx show 0608 (Kamp 5/13).
5095 COLOMBIA R. Sutatenza: 0105 M in SP w/talk, arnts, better than //5075(Alexander).
1105 M and W in SP, accordion mx (Poppin).
5770 CHINA -PBS-2: W and M in Amoy(per BECMS), CH vocals, ID at 1000 by W (Fetrvick).
5850 USA (Pirate) Voice of the Voyager: Seemed to be missing 5/12, but back stronger than before on 5/28, Now offering QSL cards, quoting from a report in RBSWC. Took calls at 212-830-9906, highlighted by one from John Robinett in Seattle, WA. They told me by phone that they were at a new location ans using a different antenna pattern (Hauser). 8 note guitar IS, ID at 0400 as "Voice of the Voyager", and into "We will Rock You" by Queen, then mail bag and into talk show, gave phone #. "Nightime melodies" pgm, chant at end "May the Spirit. . . ." and 1910 glory song to 0450* (Lorz, Field, Routenburg, Onken, Novello-NY, Charley Hoffman-PA, Phillips-ME.)/
5880 ARGENTINA R. Rivadavia: C100 sports, ID 0136, Good signal! (Field). (Barto/
0025-0035 Many mentions of Argentina, strong w/soccer (MacKay)
5886 SUMATRA RRI Pekanbaru: 1504 Indo, M w/nx (Poppin 4/77).
5960mf USSR F. Peace and Progress: 1117 EG nx and commentary.(Jones-MS).
5965 MALAYSIA RM Kuala Lumpur: 1507 sub continental mx, tenor vocalist (Poppin).
5965 BRASIL R. Guaiba: 2318-2324 M talking in fast PT, mentions of Brasil (Valko).
5970 PERU R. El Sol: 0020-0040 Guitar accompanied vocal mx, M in SP (Alexander).
5970 DOMINICAN REP: RIV Dominicana: 2332-2355 dual 9505 w/EL mx and many ID's(Krueger)
0530 election results followed by light mx (Klein).

- 5880 SOUTH AFRICA R. RSA: *2230-2320* EG to Nam. Nx and cmtry. "P.O. Box 4559"(Fraser).
 5885 USA WYFR: 0150-0235 Five minute talk on warts, UPI world nx. (Alexander).
 5995 MALI Rdf Nat: 2230-2357* Afro drum and vocal chants, some FR pops(Alexander,Cucura)
 5995 AUSTRALIA ABC: 1035 Semi-pop mx w/w in EG announcing (Earhart-PA).
 6005 CANADA CFXX: 2130-2220 Horse race coverage, EG nx and wx, ID (Alexander).
 6006 COSTA RICA R. Reloj: 1035 Two men conversing in SP, strong het after 1044(Earhart).
 0428 LA mx and ID(Baum-FL). 0900 ID, LA pops //4832. Good (Klein).
 6010 VENEZUELA R. Los Andes/R. Mil Cuarenta: TC by M 1004 & Los Andes ID, later a W w/
 Mil Cuarenta ID and TC by R. QRM from Reloj (Jones-MS).
 6030 CANADA CFVP (Relay CFCN 1060 Calgary): Pop mx 1613 at Good level (Berezowski-Calgary)
 6030 USA APRIS-Bethany: 2310-0220 CBS nx and sports. Strong (Fraser, Delong).
 6035 BRASIL R. Globo: 2356-0008 futbol coverage, world nx by M in PT. Good. (Krueger).
 6035 BOLIVIA R. Panamericana: 0028-0040 SP nx, ads, ID's, "En Bolivia, en el mundo".
 & "Desde La Paz, Bolivia". (Krueger). 1035 "Buenos Dias Bolivia", flute mx(Jones-MS).
 6040 ANTIGUA DW: 0130 s/on followed by EG nx (Harrington).
 6045 SWITZERLAND SBC: 0430 EG "Dateline" (Swanson).
 6050 ECUADOR HCJB: 1045 Ecuadorian mx, then religious talk in EG (Earhart-PA).
 6060 CUBA R. Habana: SP talk and ID. Don't mistake for Argentina! (Alexander).
 6065 SPAIN Spanish Foreign R.: *0100-0200* EG to Nam. Press review. DX pgm//11880(Fraser).
 6070 CANADA CFRX-Toronto: 0646 weak w/MoR background mx (Kamp 5/26).
 6075 COLOMBIA R. Sutatenza: 1035-1056 ID's, classical guitar mx //5075. Exc (Krueger).
 6080 BELGIUM BR1_4/ORU: *0015-0100* EG to Nam. "Brussels Calling", "DX Corner" (Fraser).
 6082 PERU R. Nacional_Lima: 0119-0125 M ancr, ID's, campo mx. Good. (Krueger).
 6090 AUSTRALIA ABC-Sydney: 0853 EG sports results. Poor. (Osterman 6/3).
 6090 POLAND Polish Radio: *0200-0224* ID, freq., M in EG w/nx. Polish mx (Cucura).
 6090 LUXEMBOURG RL: 0125 TC, pop musical selections, EG ancrs (Field).
 6095 COLOMBIA LV del Centro: 1025 ID, TC, Greetings to listeners.Campesino mx (Jones-MS).
 6120 CANADA BEC Sackville Relay: 0242 EG sports, nx. Good-Excellent(Todd Smith).
 6130 ECUADOR HCJB: 1024-1031 Minneapolis preacher in EG, ID @ 1030 (Earhart-PA).
 6135 SWITZERLAND SBC: 0215 EG freqs into SP (Delong).
 6150 AUSTRALIA ABC-Melbourne: 0849-1300 Jazz, EG nx and sports results(Osterman, Klumb)
 6155 USA WYFR-Scituate: 0130-0420 EG Bible reading, Bible counseling(Swanson, McCants).
 6160 HUNGARY R. Budapest: *0200 EG nx and cmtry. Good. (Delong).
 6165 NETHERLANDS ANTILLES-Bonaire: 0230 EG Newline. Good-Exc (Todd Smith).
 6165 COLOMBIA R. Super: 0355 ID heard thru Ned SP DX pgm (Brookwell).
 6175 ANTIGUA BEC-WS: 2347-0015 Jazz mx, nx about Britain (McCants)
 6175 PERU R. Tawantinsuyu: 1004 W ancr., "La Primera Programacion en R.T'suyu"(Jones-MS)

I still don't believe that I actually included every single report this month and that it took me only two hours to complete the whole thing. I must be typing faster! I am taking classes at summer school at CAL POLY STATE UNIVERSITY. I am occasionally an announcer on KCPR-FM the CAL POLY station. 2000 watts at 91.7MHz. I have a second class FCC license and will be going down to Long Beach later this month to try for the first class license. I hope to eventually obtain a full time job at a commercial station. I am Twenty-Two years old and am, thank God, not married! (If I were, I doubt that I'd have the time each month to do this column, though I'm sure it can be done). It's been a great summer season if you like DXing the bands from 1MHz on up. 6MHz not so good! 73's Steve

HELPING HAND: For sale. Drake SPR-4 receiver in mint condition. Extras include crystals for 120, 90, 80, 60 mbs, calibrator, matching MS-4 speaker. Price \$475.00 + UPS. Purchased from Gilfer 9/76. Selling to buy ham rig. Dennis Filka, 6324 Mandalay Drive, Parma Hts., OH 44130 or call (not collect) 216-884-1175.

NASWA DELEGATES TO ANARC 1978

The 1978 ANARC Convention is on for July 14 - 16 in Montreal! Are you going? NASWA is. . . The official representatives to this year's convention, to be held at the headquarters of Radio Canada, are Log Report A Editor, Dan Robinson, and Mr. Nick Pappas, publisher's assistant.

Don't forget to come up and introduce yourself and offer any comments, suggestions, and opinions. We are interested in your ideas.

Hope to see you in Montreal. You'll like it!

log report

JULY 1978

section

6200-11699



TOM GAVARAS

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



* NOTICE! ALL REPORTS FOR THE LOG REPORT SECTIONS SHOULD BE
* SENT TO OUR NEW DISTRIBUTION EDITOR: DAVE WALCUTT
* 2828 ROGERDALE #108, HOUSTON, TEXAS 77042. HIS DEADLINE IS
* THE 12th OF THE MONTH!

* Summer is definitely here, as evident by the small number of reports! I know that this is normal for the summer, but for a club of 1500, we can sure do a lot better than this! Come'on! There are many of you out there who are doing a lot of DX-ing, but keeping it all to yourself. Why not send in some reports and see your name in print! This club is only as good as you make it!

For those of you who have heard nearly every country in the world, and want to hear Tristan and Falkland to complete your list, this announcement is for you. For as little as \$8,900 you can sail on the Queen Elizabeth 2 on a world cruise to twenty-two ports on four continents in eighty days! You would be visiting Seychelles, Peking, Bombay, Tristan da Cunha, Montevideo, etc., etc. For more information, write to: Vaughn Rickard, Cunard, Dept T618, 555 Fifth Avenue, New York, New York 10017 or see page 88 in the June 19th edition of Time Magazine. (hi!). On to the loggings.....

- 6230 EGYPT R. Cairo; 0209-0306 English identification, talk on Lenin's Birthday, Stamp Collection Club, Cairo Calling, Story of Egypt, etc. (DeLong 4/23, Cucura 5/19).
- 6825 USSR MAYAK Home Service; 0155-0210 Russian with music, MAYAK Interval Signal, 0200 Time pips into talk by YL & OM! On L.S.B., must be a feeder. (Petrvick 4/16).
- 7050 EGYPT R. Cairo; *0300 Arabic "Sowt el Arab" program with a strong signal but poor modulation. (MacKay 6/5). 2325 Arabic music and chanting (Prath 5/14).
- 7065 ALBANIA R. Tirana; *0000-0022* English world news, discussion of decline of agriculture production of Western Countries, etc. (Jordan 5/7, Baum 5/27).
Complaints about bad television programs in Western countries are insignificant when one reads the list of special productions planned for Albanian Television. These include two series called "When the Foundations were laid," depicting the work and life in the first years after the liberation of the country from NAZI occupiers, and "The Sharpening of the Class Struggle." Then according to a release from the Albanian Telegraphic Agency there are such eye catching titles as "General of the Dead Army," "Happy People," and "Storm in the Mountains" which is dedicated to the selfless work of the Albanian geologists to give the homeland as many useful minerals as possible. (Austrian Short Wave Panorama Program).
- 7110t ETHIOPIA Voice of Revolutionary Ethiopia; *0324-0402 Time signal and news by man in apparent Amharic, music, time signals 0400. Started good but began to fade out around 0400. (Krueger 6/5).
- 7120 ALBANIA R. Tirana; 0330 English talk about changes in educational system in China. Good signal but a lot of noise (Earhart 5/8).
- 7130 ENGLAND BBC; 0336 English with jazz music, then discussion of raising cattle in Africa and overgrazing (Earhart 5/8).
- 7170 NEW CALEDONIA R. Noumea; 0715 French with a male vocal (Kamp 5/14).
- 7205 JAPAN R. Japan; *0859 Interval Signal, talk by man & woman in Korean, program extended past s/off time in sked with news at 1000. (Brookwell 5/29).
- 7260 ENGLAND RCI Relay; *0315 Interval Signal, Russian Identification, news by man, etc. Very good signal (Novello 5/18).
- 7265 GERMANY (WEST) Sudwestfunk; 0245 German with Herb Albert music, talking at 0300. HAM QRM! (Alexander 5/25).
- 7270 POLAND Polish Radio; 0210 English with Polish Folk music and talk about the Neutron Bomb (Prath 5/8).
- 7286 INDONESIA RRI; 1347 Unknown language with announcements and oriental chanting. s/off at 1402. (Uerlings 5/28).
- 7295 MALAYSIA R. Malaysia; 1520 English talking, news, commentary, English music (I'm Leaving on a Jet Plane & Heaven Look into Your Eyes). (Poppin 4/7).
- 7345 CZECHOSLOVAKIA R. Prague; *0100-0155* English to North America with News, cmntry, folk music, DX Letterbox //5930, 9540, 9630 (Fraser 5/5). 0325 English talking about Castles in North Bohemia (Eastman 5/28).

- 7450 PIRATE USA WMMR; 0115-0200* English with continuous old Beatle music and IDs as "WMMR Midwest Music Radio." Poor to fair signal with severe static interference and very bad modulation. (Gavaras 5/30). 0155 English WMMR Midwest Music Radio ID, Pop music and 0200 s/off. Strong (Zilmer 5/30).
- 7500 AUSTRALIA VNG Time Station; 1233 English with time pips and Identification at 1259 by man. Identifications are given every 15 minutes (Rascoe 6/3).
- 7600 ECUADOR HD2IOA Time Station; 0445-0500* Time pips and man with time and station identifications in Spanish. Good signal (Jordan 5/7).
- 7582a NUMBER STATION; 0628 Spanish five digit number groups read by a woman. 0634 s/off (Kamp 5/11).
- 8000 JAPAN JJJ Time Station; 1255-1300 Time ticks with ID in Morris Code & by woman. (Berzowski 5/13).
- 9022 IRAN Voice of Iran; 2135-2145 Arabic with Arabian type music (not Koran chants) with a female announcer between songs. Static and some electrical noise (Earhart 5/25).
- 9080 CHINA R. Peking; 1150 Chinese with lots of talk by a YL. (Prath 5/28).
- 9360 SPAIN Spanish Foreign Radio; 0130 Spanish news, commentary and music (Prath 5/9).
- 9390 CHINA R. Peking; 1030 Chinese with singing and applauses from audience, lady announcer. (Fraser 5/2).
- 9410 ENGLAND BBC; 2146-2155 English. Seems to be program for Europe. Talking about Markets in London, etc. (Earhart 5/25).
- 9435 ISRAEL IBA; *2230-2300* English to North America. News, editorial by YL. Remembrance Day special program//9815 & 11655 (Fraser 5/3).
- 9505 DOMINICAN REPUBLIC R. TV Dominicana; 2300-0100* Spanish news program, ID as "Radio-television Dominicana" then musical program, U.S. ballads, Spanish music, etc. (Field 5/13, Brown 5/8, Fraser 5/1-2).
- 9505 JAPAN R. Japan; *1000-1015 Interval signal with English & Japanese ID and news in English. (Woltman 5/20, Pappas 6/4).
- 9509a PERU R. America; 1038-1135 Spanish ads, many singing IDs, local music. Definitely a move up from 9505. Good signal (Krueger 5/30).
- 9515 TURKEY VOT; *2130-2215* English news, press review, Turkish Stamps, Musical Merry-Go-Round, commentary about the Arms embargo, talk on the health value of watermelons, etc. (Fraser 5/2, Cucura 5/18, Earhart 5/29, Doyle 5/22, E.Hoffmann 5/23).
- 9520 PAPUA NEW GUINEA NBC; 1153-1212 English/Pidgin with ads, news, pop music. On past 0800 listed sign off. Not heard this late before! (Osterman 5/25).
- 9525 KOREA (SOUTH) R. Korea; *1000 English ID, frequency listing, news, magazine program, Korean music, etc. (Klein 5/9, Pappas 6/4).
- 9525 POLAND Polish Radio; 0210-0230 English news, commentary and ID's (Klumb 5/15).
- 9530 USSR R. Moscow; 2210 English news to Europe with a good signal (Saaf 4/23).
- 9535 CANADA RCI; *0100-0130* English news, weather, sports, commentaries and music night (Fraser 5/10). 0224 English talking & music (T.Smith 4/10).
- 9535 ANGOLA R. Nacional; 0640 Portuguese with an exercise program, identification by woman local music, etc. (Pappas 5/17).
- 9540 AUSTRALIA R. Australia (Shepparton); 1125 English ID, business news with talk on the stock market, prices of oil and mining shares. (Earhart 5/26).
- 9550 CHILE R. Nacional; 0128-0220 Spanish with Latin American and old English songs with many identifications. Very good (Krueger 5/31).
- 9550 CUBA RHC; 1100-1120 Spanish news read by a TL & OM (Fraser 5/9).
- 9550 NORWAY R. Norway; *0000-0030* English with Norway this Week" with news and features. (Saaf 4/17).
- 9560 ECUADOR HCJB; 0100-0125 English Unshackled program (McCants 4/18).
- 9570 ROMANIA R. Bucharest; 0212 English Romanian theatre. This frequency is better than ever! (Saaf 5/9).
- 9575 ITALY RAI; *0100-0120* English news program and music //11800 (Saaf 4/21).
- 9580 AUSTRALIA R. Australia (Shepparton); *1100-1205* English with Focus, Editorials, Twilight Tales, This Day in History, Music, etc. (Fraser 5/19, Woltman 5/23).
- 9580 ASCENSION ISLAND BBC; 0215 English review of British Press and music (T.Smith 4/10).
- 9580 USA KGBI; 1028 English religious talk, Identification followed by world and USA news (Earhart 5/11).
- 9580 SPAIN RTVE; 2116 English identification, news in Europe//11830, 9505 (Cucura 5/8).
- 9585 HUNGARY R. Budapest; 0200-0220* English Identification, news, musical request pgm (Played: Please Mr. Please by Olivia Newton-John). (Alexander 5/20, Drummer 5/15).
- 9585 SOUTH AFRICA RSA; *2130-2145 English news and commentary on South African and US trade (McCants 5/5).
- 9580 UNIDENTIFIED; 1130* Chinese speech by YL. Western style organ music under R. Austral. every morning. Thought I once heard ID as "Voice of Friendship" (Fraser 5/17). -Maybe Radio Philippines? (Editor)-
- 9590 NETHERLAND ANTILLES R. Nederland; 0317 English talking about Art Paintings (Swanson)
- 9600 USSR R. Kiev; *0030 English usual communist propaganda (Saaf 5/25).
- 9610 NORWAY R. Norway 0204 English news and current events (ex9645) (Conover 5/29).
- 9620 YUGOSLAVIA R. Yugoslavia; 2158 Interval signal, English ID & News (Baum 5/13).

- 9620t UNITED ARAB EMIRATES V. of UAE; 1235 Arabic with Middle Eastern wails, solo by woman with short announcements. Spanish & Russian station also heard on the frequency. (Sarrazin 4/13).
- 9625 CANADA CBC Northern Service; 0310 English music program (Swanson 5/29).
- 9645 BRAZIL R. Bandeirantes; 0055-0135* Portugese talk, sports events, many mentions of Brazil, etc. (Alexander 5/25, Uerlings 5/25).
- 9645 NORWAY R. Norway; 0400 English identification, news followed by discussions and music (Drummer 5/21).
- 9650 GUINEA R. Nationale; 0701 French/Vernacular Identification in French, local music, Vernacular talk by man & woman, French news at 0707. GMT Sunday only? (Pappas 5/14).
- 9650 KOREA (SOUTH) R. Korea; *1130 Interval signal, English identification and schedule, news, cmntry, etc. (MacKay 5/14, Zilmer 6/3).
- 9650 SOUTH AFRICA RSA; 2315-2320* English Afrikaans lesson (Saaf 5/8).
- 9660 AUSTRALIA ABC (Brisbane); 0834 English sports program and Horse racing commentary (Osterman 6/3).
- 9660 VENEZUELA R. Rumbos; 0227 Spanish identification and Latin American music (Saaf).
- 9685 BELGIUM RTB; 0040 English news, music (rock me baby), talk on unemployment. (Alexander 5/25).
- 9695 BRAZIL R. Gazeta; 0200 Portugese sports event with a male announcer (Uerlings 5/25)
- 9690 SWEDEN R. Sweden; *2300 English talk about Sweden, mailbag, report on Red Cross (Cucura 5/7, Saaf 5/8). *0230-0300* English Id, news, Shortwave Corner with George Wood, Cmnty about European broadcasting Union and Israel. Good signal. (Saaf 5/10, Eastman 6/2, Rascoe 5/28).
- 9695 USSR R. Moscow; 0215 English news, music and reading of letters (Woltman 5/16).
- 9715 NETHERLAND ANTILLES R. Nederland; 0530 English transmission (Harrington 6/8).
- 9725 SWITZERLAND SBC; 0143 Interval signal, English announcements (Baum 4/18). 0450 English news and music (Woltman 5/19).
- 9730 GERMANY (EAST) RBI; *0100 Interval Signal, Identification, news, talked about trial of NAZI murderers during WW II (Earhart 5/21, Novello 6/6).
- 9730 UGANDA UBC; 0410 English test transmission to East Europe. Uninterrupted music and asking for reports. (Brown 5/20).
- 9745 CAMEROON R. Yaounde; 0500-0600 French/English news, Pop "DJ" program with American rock music and ID's (Klumb 5/22).
- 9745 IRAQ R. Baghdad; 2053 German with political commentary on nuclear weapons, local music and ID (Pappas 6/2). 2130-2225 English identification, news, Arabic music and commentary (Cucura 5/15).
- 9760 GREECE VOG; 0225 English news read by a YL (Saaf 6/4).
- 9770 AUSTRALIA R. Australia (Shepparton); 1410 English with Australia's Week in Business. (Grenier 6/2).
- 9770 AUSTRIA ORF; *0130 English Report from Austria, Austria Calling, News, cmntry, mx, etc. (Saaf 5/14, Woltman 5/28, Calderwood 5/19, Klumb 5/22). 0346 English with music of Brahms with comments by female announcer (Earhart 5/8).
- 9780 KAZAKHSTAN SSR R. Alma Ata; *0000 Kazakh with chime IS, bells, two National Anthems, one vocal number, etc. (Petavick).
- 9780 ALBANIA R. Peking; 0110 English news and anti Soviet commentary (Schwayri 5/25).
- 9805 EGYPT R. Cairo; 2220 Arabic with Arabic music and chanting (Prath 6/5).
- 9825 ENGLAND BBC; *0215 Interval Signal, English Identification into the Eastern Service in Persian (Conover 5/23).
- 9835 ISRAEL IBA; 0505 English world news, sports and an interesting item on Random House Cookbook (Klein 5/9).
- 9840 VIETNAM VOV (Tay Nguyen); 1120 Vietnamese program//to very weak 7512 (MacKay 5/13).
- 977 KOREA (NORTH) R. Pyongyang; 1200+ English news, ID, program about the meeting between Kim Sung and a Romanian leader, Korean music, etc. (Rascoe 6/3, Doyle 5/20).
- 0000 HAWAII WVVH; 1047 English time announcements every minute with time ticks (McCants).
- 0040 VIETNAM VOV (Hanoi); 1000-1030 English news about post war Vietnam, cmntry//12035. (Zilmer 5/21, Cucura 5/21). 1115 Spanish program. Weak (Cucura 5/21). 1530-1600 English news, commentaries and Vietnamese music (Klumb 5/20).
- 0060 VIETNAM VOV (Hanoi); 1115 vietnamese talk, some music, etc. (MacKay 5/13).
- 1350 KOREA (NORTH) KCBS; 1000 Korean talk by OM & YL (Zilmer 5/28).
- 1535v KOREA (NORTH) R. Pyongyang; 1200-1250* English commentary with relations with Mozambique, ID, music, etc. (Conover 4/29, George 5/18).
- 1630 EGYPT R. Cairo; 2320 Arabic talking, music and news (Schwayri 5/22).
- 1655 ISRAEL IBA; *2000-2030* English news, editorial, Calling All Listeners//9815 (Fraser 5/14). 2230-2300 English news, Thank Goodness its Friday & ID (Leithner 4/13, Prath 6/3, Rascoe 6/2, Cucura 5/18). 0150 Hebrew Home Service on late for Independent Day celebrations. 0215 English interview with Tom Hayden, re-CA-Israel solar energy project. 0330 s/off (Kamp 5/11). 0500 English news transmission (Harrington)
- 1672 PAKISTAN R. Pakistan; 1420 Urdu(?) talk, singing, many pop songs. Good (Sarrazin).
- 1685 CHINA R. Peking; 1205 English news bulletin with a good signal (Brown 5/9).
- 1690 USSR R. Moscow; 2335 English DX Program (Swanson 4/22).

11700

DOMINICAN REPUBLIC R. Clarin; 2300-0000 English with "This is Santo Domingo" with Rudy Espinal. News and commentary on Dominican election. Rudy was trying to absolve the military of any anti-democratic tendencies. He hoped that there would be no censorship under the new government. (McCants 5/5, Field 5/26, Novello 5/19, Doyle 5/22, Rascoe 5/28). 2300 On Friday June 9th, Rudy Espinal gave one of his few political commentaries. It dealt with the decline of tourism in the Dominican Republic since the problems over the presidential elections. Rudy claimed that the Dominican Republic was a major item in the news when there was a political problem, but now that everything is back to normal, none of the news medias are telling anybody that everything is fine. So tourism, which is the Dominican Republic's major form of income, is suffering heavily. On June 10th, Radio Clarin was off the air due to a power failure. So Clarin DX with Glenn Hauser's NASWA Listeners Notebook program was aired on Monday June 12th. (Gavaras).



Minnesota DX Club

report. Otherwise we'll just chew the fat and enjoy Miles' hospitality.

The Friday, August 11 meeting will be the First Annual MDXC Pizza party at La Pizzeria, 105 West Lake Street, Mpls.

In September the MDXC will have their second annual outdoor DX fest. We have promised the University of Manitoba DX Club such an event so that they can bring down their famous DX Bus.

The October meeting is tentatively planned for Friday, October 13, 1978 (7:00 pm Central Time) at 401 Folwell Hall on the University of Minnesota campus. Tentative program includes Professor William Howell, will tell us about his August 1978 trip to Radio Moscow! For more information, write to: Minnesota DX Club, 5212 Drew Avenue South, Minneapolis, Minnesota 55410.

ORF

To those of you lucky enough to hear the Austrian Short Wave Panorama, let ORF know that you are listening! This is extremely important if we wish to keep this program on the air to North America.

To those of you who have not heard this excellent program, tune in (if propagation permits) and give it a listen. The ORF Short Wave Panorama is on at 0300 Sunday GMT on 6155 & 9770 kHz.

If you have any comments, criticisms or suggestions concerning Log Report C, please feel free to write. Remember that we now have a new distribution editor, Dave Walcutt. I would like to express my appreciation to our former distribution editor, Greg Ravenhorst, for a job well done!!!

Before I close, let me send my best wishes to everyone attending ANARC/Montreal 1978 convention. I am sure that this will be one of the best DX Conventions that North America will ever see!!!

Again, lets flood our new distribution editor with some reports for next months Log Report! Until August,

73, Sam

MATCHED RECEIVERS!

Paul C. Gunn of Aurora, IL has what he refers to as a "true pair of receivers" rather than just two receivers of the same make and model numbers. He started with an R388 (J3) receiver, heard that the J4 was better, and purchased one from a person in Cedar Rapids, IA, serial #4727; lab #029 1059 00143. He liked it so much that he decided to look for another one to replace the R388 (J3) and finally found one at a hamfest in Princeton owned by a dealer in Napierville. After getting it home he found it was serial #4724; lab #029 1059 00144. Paul mentions that the R388 will probably be up for sale after servicing unless the service man sells it first. Final note: the NAVSEA Military Manual for the 51J-4 has stamped on the cover and first page, "The 8th Edition. 15 December 1960 'NAVY MODEL R388A/URR'."

log report section

11701 & ABOVE



DAVID WALCUTT

2828 Rogerdale #108
Houston, TX 77042

JULY 1978

We are looking for someone who could take over the editing of this section beginning with the issue of PRENDX for October. By then I will have been doing "D" for two years, which seems about like the right length of time! So, if you would like to give it a go, write HQ and/or myself.

- .1715 SWITZERLAND SBC; 0200 EG, mx (Calderwood 5/17); 0430 EG, "Dateline" news, Allen Downing ancr (Woltman 5/17).
- .1720 CANADA CBC N.S.; 1700 EG w/"Royal Canadian Air Farce" (Saaf 6/4); 2300 EG, frequencies, address and news (Rascoe 6/1).
- .1720 CHINA R. Peking; *0830 EG, news with usual slant, followed by usual commentary on Korea; fair (Klein 5/9).
- .1720 GERMANY E. RBI; 0456 EG to Afr., listeners' greetings (Pappas 5/21).
- .1720 JAPAN RJ; *0300 EG w/IS, ID; Asian Svc., news (Conover 5/29).
- .1720 USSR RM; 0230 EG, on oil; //11735, 11750 and others (Saaf 6/4); 0322 EG with Brezhnev's WW II memoirs (Earhart 5/9).
- .1725 INDIA AIR; 1135-1140* EG, State and Development news roundup; poor; dual 11855 (Zilmer 5/14).
- .1730 USSR R. Tshkent; *1200 EG w/IS, ID "This is R.T. Calling", freq, sked, nx; good (Novello-NY 5/27); *1200 EG, nx, cmnt (Cucura 5/24).
- .1735 USSR RM; *0800 RS, "Govorit Leningrad" ID, light mx (Osterman 6/3).
- .1750 BULGARIA R. Sofia; 2050 EG with DX pgm; BBC QRM (Baum-FL 5/12). R. Moscow relay; 2250 EG, DX pgm, Moscow Mailbag etc.; severe QRM with co-channel BBC; best of 12 ann'd freqs (Brown 5/7). R. Sofia; 0359 w/IS (Rascoe 5/31); 0430-0500 EG, "International Review" pgm; pgm previews; "DX Radio Club"; good (Jordan 5/6).
- 1755 CHILE Voice of Chile; 1100 EG, Chilean mx, cmnt; fair (Zilmer 5/31).
- 1760 GREECE VOA-Kavala; 2016 EG, "Music Hall"; good (Brown 5/14).
- 1765 BRAZIL R. Tupi; 0216 PT, live sports bc, //9645, 9685, 11965; poor (Uerlings-OR 5/25). World Cup competition? -ed.
- 1770 NIGERIA VON; 0600 EG, nx of Zimbabwe, Namibia; QRM (Klein 5/7); 0820 EG, about spirits, religion, women, virginity; (Osterman 6/3).
- 1770 USSR RM; 2300-0000 EG to N.Am. (Fraser 5/12, Saaf 5/9).
- 1775 INDIA AIR; 1030-1100* EG to Aust./NZ, music, news; medium level, after 1045 under BBC carrier (Mackay 5/13).
- 1780 USSR R. Kiev; *0030-0100* EG to N.Am., "Youth Program", fair, QRM Brazil (Fraser 5/12); *0300- 0330* EG, nx, cmntry, mx; ID at s/off says pgm is heard every day; good (Wentzel 6/4).
- 1789.3 INDONESIA VOI; 1415-1430 EG, nx, cmnt, ID, jazz mx (Osterman 5/13); 1437 EG, The Voice! Sinatra! w/"Did It My Way"; also comments on Big Powers, M.E., Sadat, Israel (Poppin 6/3); 1417-1500 EG w/ID at 1420, W ancr, about villagers fishing with harpoons (Eastman 5/24).
- 1810 INDIA AIR-Alligarh; 1330 EG w/IS & ID by W then nx by M; good (Uerlings-OR 5/17); 1435 EG, M w/political comment; p (Osterman 5/14).
- 1825 AUSTRALIA RA; 1145-1210 IN, pop mx, TC & nx (Cucura 5/21).
- 1825 SOCIETY IS. 0633-0647 FR, mixed mx (Cucura 5/19, Kamp 5/12).
- 1830 GUAM KTWR; 0059 EG, rel pgm, ID by W (Wirsz 5/11).
- 1835 SRI LANKA SLBC; 1050-1120 EG, modern Western pop mx, "Word of God" and rel mx, ID as "This is the External Service of the Sri Lanka Bc Service"; fair (Fraser 5/18); 1100 EG, nx & views; fair (Zilmer 6/2); 1115-1130* EG, "Radio Monitors Int." 3rd birthday pgm, greetings from top dxers; excellent signal (Onken 5/29).
- 1835 URUGUAY R. El Espectador; 0030 SP, adverts, references to Uruguay, mx at 0040; fairly good but adjacent channel QRM (Field 5/14).
- 1840 GERMANY E. RBI; 0330 EG, cmnt, features; //11890 (Zilmer 5/12).
- 1840 SPAIN Spanish Foreign Radio; 2051 EG to Europe; ID; discussion of Spanish prisons (Pappas 5/31).
- 1850 PHILIPPINES FEBC; 0930-1000* EG, summary of world and local news at s/off, advise to tune to KGEI; fair/good (Klein 5/9).
- 1860 NORWAY RN; 0055-0105 NO with IS, talk (Alexander 5/20).

- 11880 SPAIN REE/SFR; 0130-0200 EG, reports on film industry, Catholic Church, better child rearing (E.Hoffmann 5/30, Calderwood 5/16).
- 11890 GERMANY E, RBI; 0330-0410 EG, ID, nx, "Interview of the Week", "Program Preview" (Cucura 5/14); 0400-0415 EG, Dresden artworks currently on exhibit at the National Gallery (Eastman 6/1).
- 11895 NORWAY RN; 0355-0410 NO/EG, nx; poor; //9645 best (Earhart 5/29).
- 11900 ECUADOR HCJB; 1045 EG, "Magic Melodies"; fair (Zilmer 5/21).
- 11900 MALAYSIA RM; 0557 s/on with IS until 0600 when into possible Thai; ID'ed the IS from HAP tape -- beneath HCJB throughout (DLW 6/10).
- 11905 ITALY RAI; 0403-0410* EG to F.E., nx, EZ mx, IS, announced //17795, 15330 (Pappas 5/24).
- 11905 SWEDEN RS; *0030-0035 EG, spent nuclear fuel cmnt (Saaf 6/5).
- 11905 TAIWAN CBS; 0750 CH, M&W tlc, marches; fair (Uerlings-OR 5/20).
- 11910 HUNGARY R. Budapest; 0200-0412 EG/HG to N.Am. (6 reporters).
- 11925 NETH. ANTILLES TWR-Bonaire; *0030-0040 EG, Billy Graham's "Hour of Decision" with religious talk & music; good (Jordan 5/7).
- 11935 PORTUGAL RP; 0310-0530* EG, comments on political news in Portugal, "Weekly Press Review"; //6025 (Earhart 5/9, Drummer 5/20, Cucura 5/14).
- 11940.2 SINGAPORE RS; 0911-0958 EG, all kinds recorded music w/George Poppin's "pleasant" lady D/ancr, ads, nx in brief, sked, TC's; haven't heard RS in Toronto at this good level before (Osterman 5/31); 1444 EG, terrific audio, "Set radio and TV at reasonable level" PSA; Rose Karan request show (Poppin 6/3); 1458 EG, pop mx and TC's (Grenier 6/4); 1505 EG, cmntry & mx pgm, frequent ID's, songs of Ann Murray; weak (Onken 5/29). Not only that, but CAMBODIA seems to have gone down to 11920.6 as of 6/10; no doubt this signal from Singapore detracted from Phnom Penh's mission to fulfill the propaganda needs of the masses... -ed. Almost left out: 1620-1700* EG, "Soothing Sounds" until 1630, then "Late Night Extra" to 1700; ran late today, Saturday, only; did not ann. //5010 (Arthur-CA 5/20).
- 11945 LIBERIA ELWA; 0630 w/ID in EG followed by AR pgm (Drummer 5/19).
- 11965 BRAZIL R. Panamericana; 0220 PT, sports event (Uerlings 5/25).
- 11965 KOREA S. R. Korea; 1130-1200 EG, freq/time sked; //9650 (Zilmer 6/3).
- 11965.1 LEBANON RL; 0200-0230 AR, nx & cmnt about Sadat's visit to Syria; 0230-0300 EG, nx & cmnt on the domestic political situation (Schwayri 5/31); 0230-0300 EG, after news pop mx for rest of pgm until direct into SP at hour; good signal (Salay 5/20); 0230-0300 EG, "This is Beirut", freq & time, pop mx show; good (Stu Klein 5/22).
- 11970 TUNISIA RTV Tunisienne; 0555 AR with Koran chants, local music; //15225 (Pappas 5/17).
- 12033 VIETNAM VOV; 1000-1029* EG, nx, cmnt, mx; //10040 (Zilmer 5/21).
- 12070 USSR RM; 2139-2200 EG to UK; mailbag with Doris & Tom, cmntry; //11830, 11720, 9765, 9720 (Overcamp). Who's your date? Hi. It's hard to believe it almost been two years since you turned over "D" Section to me! Ah yes, time does fly doesn't it?! -ed.
- 12179 UK BBC W.S. feeder to Ascension Is. Atlantic Relay; 0415 EG, this SSB xmsn has been QSL'ed by J.Keith Edwards of External B'casting as correct; good (Klein 5/8).
- 15008.8 VIETNAM VOV; 1910 FR, nx by W, weak but steady (Novello 5/21); 1947 FR, soft Western-style mx; poor (Uerlings-OR 5/21).
- 15040 NETH. ANTILLES RN-Bonaire; *2230 DT, R. Nederland's almost perfect record of clean signals marred by this spur of their 15320 xmsn; church service past 2245 (Utter 5/28); 2310 DT, RN putting in a fair signal here during Dutch church service on Sunday; not audible on this freq other days of the week when in PT; this transmitted mixing product is 140 khz below 15180, which is also 140 khz below //15320 (Hauser 5/28). A vaguely worded letter from Hilversum attributes the problem to the fact that on Sundays the two antennas used for 15320 & 15180 are situated alongside one another -ed.
- 15059 HUNGARY R. Budapest; 0245 HG, RB adds a new freq the easy way, with a healthy spur off their 15225 xmsn; high spur also noted on 15391; pgm was Hungarian versions of US tunes (Utter-NY 5/29).
- 15084 IRAN NIRT; 1952-0155 FS, local Persian mx (5 reporters).
- 15100 LIBYA PRBS; 1530 AR, W ancr, unmistakable Arab mx (Alexander 5/19).
- 15110 CHILE VOC; *1100 EG, Chilean mx, cmnt for today; fair (Zilmer 5/25).
- 15110 PAKISTAN RP; 1104 EG, nx in slow English. Each sentence is repeated a second time at normal speed. 15115 not heard; f (Zilmer 5/28).
- 15120 NIGERIA VON; 0600 EG w/ID and talk on foreign intervention in Africa; good (Novello-NY 6/4).

- 5120 POLAND PR; 0202-0217 EG, about farms in Poland; 0215+ PL, nx, 15 minutes ahead of sked (Cucura 5/19); 0300-0330 EG, nx and Polish hit parade; fair with HCJB QRM (George-TX 5/28); 0320 EG, request records; excellent considering HCJB on 15115 (Saaf 5/13).
- 5120 SRI LANKA SLBC; 1045-1051 EG, nx from 1045, then mx (Valco 5/17); 1100 EG, nx, mx, cmntry; other days rel pgms (Zilmer 5/29).
- 5120 VATICAN VR; 2258 SP with IS, bells, ID, rel pgm; good (Klein 5/17).
- 5125 CHILE Voice of Chile; 1100 EG, Chile mx, cmnt, fair (Zilmer 5/25); 1130-1135 SP, co-channel with VOA; moving fqy around (Earhart 6/5).
- 5125 PORTUGAL RP; 1725 PT with Portuguese-type mx, ID mentioning Brazil; this is a Sunday-only broadcast (Earhart 5/14).
- 5130 NEW ZEALAND RNZ; 0400-0626 EG, weather & mx! (5 reporters).
- 5135 BULGARIA R. Sofia; 2140-2200 EG, nx, anti-Sadat, anti-American propaganda; nx on Bulgarian economy (Schwayri 5/29).
- 5135 GUAM KTRW; 1100 EG, gave ID and then faded out (Eastman 5/18).
- 5135 USSR RM; 1500 EG w/IS, ID, nx; poor; //15150 (Jones-MS 5/21).
- 5140NF CHILE VOC; 2205-2244 GM into IT at 2210; gives bands, not freqs, can't locate the others; Big-Ben-like IS (R. Nac.-ed.); powerhouse (Brookwell 6/4); 2237 IT, VOC in its habitual musical-frequencies (fqy-mx? hi -ed.) game, noted here mixing with VOA (Hauser-TN 5/23).
- 5145 BRAZIL RJC; 2345 PT, soccer game (Kamp 5/13).
- 5145 CHILE VOC; 2238 IT, heard //15150, 17714, 17790, 17800 (Hauser 5/25); *2300 SP, lots of nice local mx, very good (Klein 5/8).
- 5150 SAUDI ARABIA BSKSA; 2249 AR, mx, ID by M, drums; fair (Klein 5/8).
- 5150 USSR RM; 1450 EG, //15135, "Spotlight on Sports" (Novello 6/6).
- 5155 AUSTRIA ORF; 1230 EG, nx; poor (Zilmer 5/14).
- 5155 MOROCCO RT Moroccan; 1500 AR, "Huna Rabat" ID, nx, Arab mx dominated by strings; France QRM (Novello-NY 6/6); 2215-0001 AR, Arabic songs (ID heard? -ed.) (Schwayri 5/24).
- 5155 PHILIPPINES VOA; 1100 EG, nx, poor (Zilmer 5/29).
- 5160 AUSTRALIA RA; 0623 EG, lite mx, TC, ID; good; //15240 (Kamp 5/14).
- 5160 HUNGARY RB; 1030 EG, treble on a topic; poor (Zilmer 5/21). Treble? 1205 EG, nx, first I've ever heard Hungary on this (Earhart 5/29).
- 5165 DENMARK RD; 1730 EG/DN, anmt pgms exclusively in DN (Wirsz 5/18).
- 5175 CHILE VOC; 2330 FR, Chile has been moving around (Earhart 5/23); 2358 SP, VOC relaying CB114 with mostly Argentine mx, presumably in conjunction with World Cup matches; off, mid-mx, at 0056; good (Utter 6/4); 0001 EG, Chilean mx & comment; fair (Zilmer 5/26); 0003 EG, music, news (Woltman 5/29).
- 5177a IRAQ Voice of the Masses (ID per Victor Jaar from DX Digest 6/11, who says //7195 is better -ed); 0150 AR, another station joins the 19 m. round dance; M.E. mx, brief anmts to 0200 and two minutes of news, chant thereafter (Utter-NY 5/30).
- 5190 CONGO Voice of the Congolese Revolution; 2130-2145 EG, strongly accented; with anti-American, pro-Communist nx (Radcliffe 5/29).
- 5190NF SWEDEN RS; 2039 SW, SSB; mx, wx for fisherman, covered Congo RTVC; fair (Osterman 5/16).
- 5200 FINLAND RF; 1430-1500 EG, nx, temperature, lbx, introduction to Finnish, lesson 6 (E.Hoffmann 5/21); 1430 EG, Finland at it's Sunday Best; poor (Zilmer 5/21); 1435-1500 EG, nx, wx, lbx; Introduction to Finnish, lesson 5; about Finnish citizenship (Cucura 5/14).
- 5202 INDONESIA RRI; 0706 IN, long talk, ment. Indonesia (Uerlings 5/20).
- 5202NF SWEDEN RS; *2300-2330 EG, Nordic & Swedish nx, Panorama; good! (Klein 6/6); 2300 EG, RS now very good on this new freq, ex-11800 which was co-channel Finland and, worse, adjacent DW; an excellent move taking advantage of a one-hour gap in VOA use of 15205 (Hauser 5/23); *2300-0000* EG/SW, replaces 11800; excellent (Saaf 5/26); 2300 EG, this is a frequency that ANARC FRC recommended (Zilmer 5/23); 2300-0000 EG/SW, covered by 500 kw. from Greenville at 2357 (Earhart 5/22); 2330 SW, with IS, ID, nx (Rascoe 5/29).
- 5215 SPAIN/PORTUGAL? RFE/RL; *2200 RM w/IS, "R. Europa Libera" ID, much on Zaire & Africa (Klein 5/23); 0748 RM, rock mx, fair (Wirsz 5/15).
- 5225 HUNGARY R. Budapest; 0130-0406 EG to N.Am. (14 reporters). They are also reported on 15220 around 0000 so may change frequency -ed.
- 5225 TUNISIA RTV Tunisienne; *0430 AR w/anthem, ID, freq by M followed by Koran chants (Pappas 5/24); 0438 AR, vocals by M (Novello 5/24).
- 5265 FINLAND RF; 2300-2330 EG into 2330 FN, usual programs (Zilmer 5/24, Klein 5/30, Woltman 5/28, Arthur 5/29); 0458 w/IS (Baum 5/28).
- 5270 JAPAN NHK; 0030-0045 EG to N.Am., "Asian News" (Calderwood 5/19).

- *15295 MALAYSIA Voice of Malaysia; 0820-0855* EG, Western pop mx, female DJ, nx, cmntry, s/off anmts; strong (Mackay 5/10). See 11900 -ed.
- 15315 ITALY RAI; 0100-0115 EG to Americas, news (6 reporters).
- 15320 AUSTRALIA RA; 0215-0435 EG, usual pgms (5 reporters).
- 15325 UGANDA UBC; 1251-1255 EG with test xmsn to USA, fair (Onken 6/3). This is first report I've seen that they are running the test tape at an additional time, which is interesting indeed -ed. 0311-0345* EG, test xmsn with western-type ez listening mx, requests for reports (Arthur-CA 6/1); 0315-0404* EG, test pgm with popular EG & FR songs & ID's; abruptly off (Salay 6/7); 0320 EG, test BC to USA, request for reports (Zilmer 5/24); 0320-0400 EG/FR, test xmsn with US and Canadian pop mx (George-TX 5/23); 0321 EG, MOR mx, anmts, requests for reports (Wirsz-BC 6/9); 0326 EG, M giving address, Neil Diamond mx, Australia QRM (Burns 5/18); 0327 EG, M ancr with reports requested to P.O. Box 2038, Kempala (Klein 5/26); 0330 EG, light mx, asked for reports (Radcliffe-IL); 0330+ , anmts in EG this is a test to the USA and in FR to Canada; exact on and off tim varies; surprised Idi didn't think of trying to improve his image over here by this means earlier (Hauser 5/19); 0330 EG, speed variation on tape or turntable, soul & disco mx (Novello 6/7).
- 15330 BULGARIA R. Sofia; 0000 EG, nx, heard over AFRTS; fair (Zilmer 5/13); *0004 EG, nx, cmnt, dx pgm about R. Prague!; QRM AFRTS (Brown 5/20); 0010-0100* EG to N.Am., cmnt & Bulgarian mx (Fraser 5/9); 0020 EG, sports roundup (Klein 5/9); 0055-0100* EG (Saaf 5/15)
- 15334.0 COLOMBIA R. Nacional; 1045 EG/SP language lesson (Zilmer); 1305-2235 SP, classical mx; good (Brown 5/29, Klein 5/8).
- 15345 KUWAIT RK; *0400 EG to S., S.E.As., IS and ID by W; light mx & pop after Koran; fair/poor (Mackay 5/31, Novello 6/6).
- 15349.7 LUXEMBOURG RTL; 1520 FR, heard "We are The Champions", stayed with it to see if V. Voyageur testing on a new freq -- instead it was this with many ads, comedy, etc. (Novello 6/6); 0109* with Luxembourg's NA, then back on again at *0300 FR following IS but no ID, directly into religious program; s/on appears to be the only time they use the IS listed in the WRTVH; at 0330 they give ID and the "usual" 5-note IS; however, GMT Sundays they stay on from 0109-0300 with usual rock pgm. Stu Klein called about the rel pgm from 0300-0330, which sounds like a different station. From 0300+ RTL is QRM'ed by what has been reported to be Saudi Arabia's "Holy Quran Station" with album-oriented chant format (DLW 6/7).
- 15390 GERMANY E. RBI; 2041 EG to Afr., reports requested (Pappas 6/2).
- 15405 USSR "R. Yerevan"; 0324 EG/AM, fqy anmt in EG and into Armenian (Mackay 5/20). "R. Moscow"; 0700 EG to WONA (Mackay 5/11).
- 15425 USSR RM; 0050 EG, cmntry, Soviet wildlife refuges (Calderwood 5/17)
- 15434.6 TANZANIA RT; 0340 EG, pops & C&W mx, drum IS, M ancr; good (Burns 5/26); 0435-0500* EG, pop songs, ID's and TC's; 0455 news in brief, closing anmts; fair/good signal (Salay 6/7). Fqy: DLW.
- 15435 UK BBC; *1630 Maltese, language buffs may want to check out this one; Maltese sounds nothing like any other Mediter. language; s/on "This is London Calling Malta", 5 minutes Maltese tlk (Utter 5/31).
- 15455 USSR R. Rodina; 2000 RS, time pips, organ IS, ID (Jones-MS 6/6).
- 15475 EGYPT R. Cairo; 1750 AR, Arab mx, chants (Prath 5/21).
- 15485 ISRAEL IBA/Israel Radio; 2230-2300 EG to N.Am. (5 reporters).
- 15520a PAKISTAN RP; 1605-1615* EG, nx; poor; //11672 (Zilmer 5/29).
- 15521a BANGLADESH RB; *1228-1300* EG, pleasant IS by violin & tanpura, nx & cmnt, rock, pop, & sub-cont. mx; fair but QRM (Osterman 5/19); *1230-1300 EG, IS, ID by W, nx, local mx; poor (Conover 5/28).
- 15530 ISRAEL IBA; 1232 FR, nx & cmntry, interview; poor (Cucura 5/24);
- 15545 ISRAEL IBA; 0443 HB, Schwepes ad; //12077.5 (Novello-NY 5/24).
- 15790 CHINA Voice of the Malayan Revolution; 1045 lang; f (Zilmer 5/21).
- 17630 ISRAEL IBA; 1230 HB, Home Svc. Pgm "B", records (Zilmer 5/14).
- 17710 HUNGARY RB; 0400-0415 EG, dx pgm with M reporting upcoming activities of ANARC, IRCA and EDXC, then into reception reports and fqy changes for May-Aug. 1978; fair (Jordan 5/6).
- 17710 NEW ZEALAND RNZ; 0129-0445 EG to Pacific area (7 reporters).
- 17715 UK BEC; 1600 AR, nx (Schwayri 5/21). Details please?
- 17720 FRANCE RFI; 1605-1700 EG, "Paris Calling Africa", mx, nx, on Frenc paratroopers in Zaire (Lorz 5/21); 1605 EG, "P.C.A.", //17800, 17850 17860, 21580, 21620 (Zilmer 5/28).
- 17725 AUSTRALIA RA; 0245 EG, sports news; weak (Alexander 5/20).

- 7725 JAPAN NHK; 0215-0230 EG, Asian News, good; //17825 (Brown 5/10).
 7740 SWITZERLAND SBC; 1315 EG, now doing rather well on SSB; though some QRM, no comparison with inaudible 15140! But I8d still rather listen to powerful AM signals at 1530 on 21570, 1815 on 21585, or 0145 on 15305 (Hauser 5/27); 1330 EG, SSB; discussion of EDXC, QSL's, pirates, etc.; no QRM at all; good (Novello-NY 5/27); 1330-1345* EG to N.Am., USB; on parasitic infections in Africa; exc. (Fraser 5/14).
- 7765 LEBANON R. Lebanon; 1930-2000 AR to Africa; songs, nx, cmntry (Schwayri 5/27); 2325-0100* PT/AR/SP, with ID in PT at 2325, Arabic nx at 2335, ID in SP at 0032; strong; AFRTS QRM (Mackay 5/15).
- 7770 UK BBC W.S.; 1000, nx; poor (Zilmer 5/28).
 7770 ITALY RAI; 0010-0250 IT, uninterrupted music; //11810 (under REE), 15315, and 15385 (Novello 5/30, Brown 5/31, Earhart 5/29).
- 7775 USA AFRTS; 1517 EG, special fqy, mixing with France, for Indy 500 coverage; //15330, usually silent at this hour (Hauser-TN 5/28).
- 7780 GERMANY W. DW; 0930 EG, nx, cmnt, features; to Asia (Zilmer 5/28).
 7780 INDIA AIR; 1110 unid. lang., IS to 1115 s/on; fair (Zilmer 5/20).
 7780 SOUTH AFRICA R. RSA; 0600 EG w/ID, world nx; fair (Klein 6/1); *1100 EG, nx to E.Afr. & Eur.; poor (Zilmer 5/27).
- 7780 USA VOA; 0215-0300+ EG, "Breakfast Show" (Mann 6/29). 5/29).
 7785 HUNGARY R. Budapest; 1200 EG, nx, cmnt, "Floor is Yours" (Zilmer 5/28).
 7785 USA WYFR; 1420 EG and FR Bible reading (Swanson 5/28).
- 7790NF CHILE VOC; 2237 IT, heard //17714, 17800 plus a different set of 19 m. frequencies each day (Hauser-TN 5/23 + 5/25).
- 7795 AUSTRALIA RA; *2358 FR w/IS, freqs, nx (Pappas 5/20); 0134-0703 EG, pop mx, TC's, program on shortwave, John Denver (6 reporters).
 7795 NORWAY RN; *2100 NO w/IS, ID, ID in EG, nx (Klein 5/24).
 7800 CHILE VOC; 0030 EG, Chilean mx, into SP, fade (Baum-FL 5/26).
 7810 PHILIPPINES FEBC; 0041 EG, on history of FEBC (Grenier 6/5).
 7815 BRAZIL R. Cultura de Sao Paulo; 0050-0308 PT, classical and Brazilian pop mx (Brown 5/10, Owen 5/30, Earhart 5/29).
- 7820 CANADA RCI; 1730+ GM, nx (Torsay 5/27); 1900 EG, "Weekend Magazine" (Grenier 6/4); 2000 EG, nx; fair (Harrington 6/8).
- 7830 PAKISTAN RP; 0233-0245 EG, slow news & ID (Cucura 5/19); 0308-0317 unid lang. & mx (Earhart 5/29); 0336 EG, cmnt & mx; p (Zilmer 6/2).
- 7840 AUSTRIA ORF; *0430 EG, nx, beamed to Australia! Good signal!! (Saaf 5/20); *0430 EG, "Austria Calling", v. poor (Klein-FL 6/2); 0430-0500 EG, nx & classical mx; good (Radcliffe-IL 6/4).
- 7870 AUSTRALIA RA; 0140 EG, on N.S.W.; fair (Saaf 5/9).
 7880 JAPAN NHK; 0100 EG, nx & cmnt (Calderwood 5/16); *0300 EG, freqs, nx; poor (Klein 5/20); 0400 EG, Asian News (Grenier 6/6).
 7880 PORTUGAL RP; 1800-1900 PT, noticiário, pop mx (Owen 6/4).
 7885 USSR RM; *0400 EG to Afr.; nx; over R. Japan (Mackay 5/20).
 7885 USSR RSP&P; 1430 EG, nx; good (Torsay 5/29).
 7890 TAIWAN VOFC; 2145 EG, nx about Taiwan (Calderwood 5/29).
- 7900 VATICAN VR; 1645 FR w/IS and ID (Petraevick 5/7).
 8000 UNID (See previous report); Tony Buhagiar, born in Turkey, assures me the mx was in Turkish, not Arabic; so it looks as if we have a private/pirate Turk station here; not heard since (Hauser-TN).
- 1460 USA VOA; 0220 EG, unlisted in current sked (Brown 5/11).
 1465 EGYPT R. Cairo; 1355 AR, music (Prath 5/7).
 1485 UNID 0325, stn with much stronger signal than RA-21680 playing instrumental mx, with pauses; VOA-Philippines? (Hauser 5/19).
- 1535 JAPAN R; 0810-0830* EG, mx, interview, DX nx (Marable-ITALY 6/4).
 1540 GERMANY E. RBI; 1415-1440 EG to S.E.As. (Prath 5/7, Baum-FL 5/28).
 1570 SWITZERLAND SBC; 1535-1600 EG, jazz from Europe, wx in Berne; into GM at 1600 (E.Hoffmann 5/28, Lawrence 5/26).
- 1625 ISRAEL IBA; 1956 EG, unlisted fqy, with IS to 2001 off (Hauser 5/22).
 1650 ISRAEL IBA; 2000-2013 EG, nx, lbx; weak; //11655, 17710 (Zilmer 5/14, Mackay 5/14). Rascoe 5/20, Brown 5/20).
- 1680 AUSTRALIA RA; 0001-0315 EG, nx, wx, sports (Grenier 6/5, Saaf 5/20).
 1710 UK BBC W.S.; 1657-1815* (Brookwell 6/3, E. Hoffmann 5/29, Saaf 6/4).
 1730 PAKISTAN RP; *0200 IN w/IS, ID in EG, musical theme, short talk & into Koran; nx; strongest on band (Novello 6/2); *0200 EG/IN with ID in EG, very poor; //17845 (Mackay 5/11).
- 1730 NORWAY RN; 1420 EG, about magazine reading in Norway (Prath 5/7); *1600-1630* EG to N.Am., "Norway This Week": nx, folk mx, commentary on Norwegian reading habits; good; //17790 (fair) Fraser 5/7).
- 15605 ISRAEL IBA; 1445-1646* Yiddish/RS (Prath 5/21, Salay 5/29). 73,



A FRENDX classic



If there is humor in the shortwave hobby, Al Sizer, North Haven, CT will find it. The following piece first appeared in the June 1974 FRENDX and it has broken me up ever since. Al says any resemblance between this and any other DXer is stoutly denied, but I wish he in a way that he was referring to me. The article is called....

THE SNOB

LOGGING REPORT

- 3290 TRISTAN DA CUNHA (presumed) With EE nx at 2000 but did not stop to ID as not needed here.
- 3942 UNIDENTIFIED Interesting Asian lang. Station here some nights around 0100; unable to ID due to Falklands QRM.
- 4008 KIRGHIZ SSR Frunze here at 1100 in lang. Easily ID'd by Kirghizian mx rhythms with unique diatonic scale.
- 4719.534 CAPE VERDE R. Clube Mindelo with fado mx at 2152. Freq. varies between 4719.533 and 4719.535.
- 5000 U.S.A. There has repeatedly been a difference of 100^u of a second between WWV time checks here and on 10000 kHz. Most annoying.
- 6155 SWAZILAND Seems to be six stations here but easily separable with my specially adapted SWC-22A with radar notch filter.
- 6250 EQUATORIAL GUINEA Santo Isabel with most interesting political commentary at 2200 in vernacular Afro lang. Will provide translation for SASE to any desiring same.
- 11760 COOK ISLAND Rarotonga. Yes, it's there almost daily around 0800. Surprised me the rest of you can't hear it.
- 16050 PUERTO RICO R. Luz, Santurce, normally 1600 kHz has drifted up to 1605, qualifying it for short wave under NASWA rules, and heard at this QTH on 16050 on 10^u harmonic. Cry your hearts out, guys!!

QSLs RECEIVED

- LESOTHO With my QSL from 7PA-22, the 100 watt Catholic School station formerly on 3824, the fifth grade students at Maseru have sent me a hand-embroidered Lesotho flag. Must find room on my crowded walls, even if my Andorra banner goes.
- TIBET Lhasa monks have sent me parchment scroll of verification. For DXers having trouble with this one, I will translate your report into Tibetan for \$50 per page.
- MANCHURIA First verie in the world marked "Haer-pin" (Harbin). Handwritten P.S. from Chou-en-lai says unfortunately not able to do likewise for other DXers.



SPECIAL *feature*



The following article is published with the permission of Radio Japan. It appeared in a booklet sent out by NHK entitled "HOW TO LISTEN TO RADIO JAPAN" and is probably the best information available on the SINPO code.

HOW TO WRITE A RECEPTION REPORT

Various kinds of code are used for writing reception reports. The most widely used code today is the SINPO code, which stands for the initials of Signal Strength, Interference, Noise, Propagation Disturbance and Overall Rating. Each item is classified into five scales. Best is given as 5, and worst as 1. For example, 5 in Item "S" means the signals received are fairly powerful. 1 in Item "S" means signals are barely audible. Likewise, 5 in Item "I" means no interference, and 1 extreme interference. All these are shown in the table below.

Rating Scale	S	I	N	P	O
	Signal Strength	Degrading effect of			Overall Rating
		Interference	Static Noise	Propagation Disturbance	
5	Excellent	Nil	Nil	Nil	Excellent
4	Good	Slight	Slight	Slight	Good
3	Fair	Moderate	Moderate	Moderate	Fair
2	Poor	Severe	Severe	Severe	Poor
1	Barely Audible	Extreme	Extreme	Extreme	Unusable

In entering a reception report using the SINPO Code, you are asked to begin with Item "O", which indicates how clearly the broadcast you are listening to is audible. Each of the five scales in this item can be given as follows:

5. Excellent. Comparable to the reception of local broadcasts.
4. Good. Speech intelligible, perfectly and easily.
3. Fair. With some effort speech is intelligible.
2. Poor. With considerable effort speech is intelligible.
1. Unusable. Barely audible.
- X. Entirely inaudible.

Here are some examples of entry:

If you think reception conditions were perfect, then you write in 5 outright in each of the S, I, N, and P columns as in the "O" column:

SINPO
55555

If you think they were good, you write 4 in the "O" column, and think over the reason why you could not give the best marks. Although you have no measure, you may think the signal is strong enough and there is no static or fading, but you cannot give full marks as there is a slight interference from another station between speech. In that case the form should be filled in thusly:

SINPO
54554

If you think the reception was not good and considerable effort was required to understand speech, the overall rating will be 2. Then let us investigate the reason why you have given a 2. The signal does not seem to be so strong and the interference is heavy; in addition there is some fading which introduces some noise. If this is the case, you should complete it thus:

SINPO
32332

THE HAP DXer's COURSE

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

HERE'S WHAT'S COVERED IN EACH OF THE FOUR TAPES

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

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PUBLISHER'S PAGE

5:40
6:00



NOTICE

The Minnesota DX Club meets monthly in the Minneapolis-St. Paul area. For details please contact Kim A. Elliott, 3016 Grand Avenue S, Apt #104, Minneapolis, MN 55408

NOTICE

NOTICE

THIRD ANNUAL NEW ENGLAND DXERS OUTING!

SEPTEMBER 10, 1978 AT BLACK ROCK STATE PARK IN WATERTOWN, CT!

It's not too early to make plans to attend! Write to Sam Barto, NASWA QSL Editor, 245 Cherry Ave., J-11, Watertown, CT 06795 for details.

HELPING HAND: For sale. Grundig Satellit 2100 with case in mint condition. \$300.00, UPS paid. Contact Erwin Schoen, 1804 N.E. Hancock St., Portland, OR 97212 or phone (503) 282-7037.

HELPING HAND: Wanted. To beg, buy or borrow: any good quality recordings of Rudy Espinal on Radio Clarin. Especially May 18 with comments about Dominican Republic elections. Please write to Kim Elliott, 3016 Grand Ave., S., Apt. #104, Minneapolis, MN 55408.

HELPING HAND: For sale. Larry Brookwell, 1826 Cypress St., San Diego, CA 92154 has wired up a bunch of 100 kHz xtal calibrators with LED pilot to save batteries (requires 3 AA cells) and will sell them for \$15 postpaid each, giving 10% to HAP. Phone is (714) 429-9728.

HELPING HAND: Wanted. NASWA member Steve Kennedy, P.O. Box 132, Immokalee, FL 33934 would like to contact any NASWA members or other DXers living in Southwest Florida (Naples, Ft. Myers, Venice, etc.). He would appreciate a phone call, eyeball QSO, and correspondence. Call (813) 657-4747.

HELPING HAND: For sale. Outboard Frequency Extender for Drake SPR-4 with eleven switchable xtals. Boosts coverage to 33 500 kHz segments. No modifications, plugs into xtal socket in receiver. Dial marked for freqs, bands and preselect settings. Compact, matches receiver. \$60 with 10 xtals. Will also sell Drake xtals for \$4.00 each. Larry Brookwell, 1826 Cypress St., San Diego, CA 92154. Phone (714) 429-9728.

HELPING HAND: Wanted. Lafayette HE-30 Communications Receiver. Must be in above average condition, complete, and have manual. Will pay top \$\$\$ for best set offered. For personal collection. Contact Steve Kennedy, P.O. Box 132 Immokalee, FL 33934 or call (813) 657-4747.

HELPING HAND: For sale. Crystals for R-4B and R-4C. 4.5-5.0, 6.0-6.5, 9.5-10.0, 10.5-11.0, 11.5-12.0, 12.0-12.5, 15.0-15.5 and 17.5-18.0. Also a Caslon 24-hour clock with instructions and two manuals for the R-4B and R-4C. All for \$38.00. Stanley Cabral, 2254 62 Ave., Oakland, CA 94605. Phone (415) 562-2486.

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