



We are pleased to announce the following 41 new NASWA members who have joined in time to receive the July issue of FRENDX. We hope they find their new association to be helpful.

ALDRICH, Joe L., Mobile, AL	MCGLOIN, Jim, Lemont, IL
BLACK, Allen, Myrtle Beach, SC **	MARSHALL, Phillip, East Point, GA
BOYNTON, John, Federal Way, WA	MORRISON, J. Kent, Ashland, KY
BRISSETT, Michael, West Allis, WI	ODELL, Melvin R., Hamden, CT
COPPEDGE, Robert J., Terre Haute, IN	PEARSON, Asa M., Dallas, TX
DUBOIS, R.A., Tallahassee, FL	POLLOCK, Raphael, Chicago, IL
DUBRICK, Anton J., Urbana, IL **	REEDER, Howard F., Myrtle Creek, OR
FORBES, Lewis J., Brackettville, TX	REIGER, John J., Milwaukee, WI
HARRINGTON, Thomas, Reynoldsburg, OH	SCHLESINGER, Mark, Clute, TX
HETZEL, David, Milwaukee, WI	STIPULIN, Edward W., Cary, IL
HUDDLESTON, Howard, Houston, TX	SWEDBERG, Eric, Portland, OR **
JADERLUND, Eric, Selah, WA	THOMPSON, Douglas F., Bloomfield Hills, MI
JAFFEE, Douglas G., Montpelier, VT	VIAU, Robert, Laval, P.Q.
JANTO, Paul, Washington, ME	WAITS, Ray, Cleburne, TX
JOHANSSON, Kurt, Gräsmark, Sweden	WALDBURGER, John J., Edmonds, WA
JOSEY, Mac, Darlington, SC	WILBURN, Hugh T., Gulfport, MS
KORWIN, Alan, Bronx, NY	WILLIAMS, W.K., Bath, ME
KRUPA, Henry, Woonsocket, RI	WRIGHT, Larry, Menlo Park, CA
LAMBERT, Jack, Seymour, IN	YOKUBAITIS, Roger T., Houston, TX
LANATTO, Robert, Livonia, MI	
LUCAS, Cookie, Salix, PA	
MCCAULEY, William J., Scottsdale, AZ	

** Welcome back to NASWA
after a short absence!

QSL CARD FOR SWL/DXers: Those who use either the "WDX" or "WIS" station monitoring call letters, and might like to have a printed "QSL" type card to send with reception reports or to exchange with other monitors, we are advised by NASWA member Bill Taylor, Unionville, NJ that a source for this type of card is Ebbert Graphics & Stamps, P.O. Box 70, Westerville, OH 43081.

We are told that a special card is available in several designs and the card they are offering has a format especially for the SWL rather than the standard ham format used by some other card suppliers. The price is \$12.00 for the first 100 cards, and \$6.00 for each additional 100 cards. Although it was not specifically mentioned, it may be possible to obtain samples of the SWL card by writing Ebbert Graphics & Stamps at the address given.

DX OPEN HOUSE - TORONTO: The Ontario DX Association is holding a DX Open House on Saturday August 23rd from 10:00 AM to 10:00 PM at the North York Memorial Community Hall, 5090 Yonge St., Toronto.

The program will include displays of club and station literature, equipment, as well as instructional displays. Several speakers will deliver talks on various subjects.

Further information is available from Harold Sellers, 3 Camrose Crescent, Scarborough, Ont., Canada M1L 2B5.

LINEBACK TO LEAVE SWC: Some months ago, our Short Wave Center editor, Jerry Lineback mentioned that he might be leaving FRENEX in the future. We had hoped that this would not happen, but unfortunately we do have to announce he will be leaving the FRENEX staff after the September, 1980 issue of FRENEX. As many know, Jerry is employed by the State of Illinois as a Geologist. Because of increasing demands in connection with his career, Jerry feels it would be wise for him to begin to relieve himself of his NASWA responsibilities at this time.

Jerry is our senior editor, and one would have to go back to the January, 1973 issue of FRENEX to find him in his first capacity as editor of one of the Log Report sections of that issue. In September, 1976, Jerry took over the Short Wave Center section from the previous editor, Charles M. Wooten, had to resign due to returning to active Navy duty which would take him out of the country for a few years. Jerry has been editor of that very popular section without missing a single edition since. In addition to his jobs as editor, he has also served as a member of the NASWA Executive Council since his election in late 1976. Presently, Jerry also serves as a member of ANARC DX Equipment Committee.

Very few people now in NASWA are aware that Jerry was instrumental in keeping the club alive a few years back at a time when it seemed the club would certainly fold for lack of someone willing to assume the responsibility of running the club and publishing the bulletin after the Director-Publisher at the time wished to turn club matters over to others. It was Jerry who personally took the initiative to work out a plan for dividing the club responsibilities of administration and publishing between two persons and to negotiate with prospective parties to allow the club to continue without interruption. The club did continue, of course, and has grown tremendously during the following years. We know many will share our regret that Jerry leaves, and that we do hope he will favor us as a contributor as often as is possible and wish him the very best in the future.

Now, the immediate problem is to find a replacement editor at the earliest possible moment. With NASWA's present membership of over 2,000 members we feel there is, no doubt, someone out there who can carry on the fine tradition Jerry will be leaving. We now make an appeal to those who feel they are interested, qualified, and available to take over this responsibility to contact HQ as quickly as possible.

Those who consider this challenge should be aware that they should have time available on a regular basis to do the job, the availability of a good typewriter is a must, better than average typing skills would be an advantage, and it would be understood a well experienced hobby background would be of equal importance.

We sincerely hope anyone who feel they might want to check into this further will contact us immediately. If we are unable to fill the job before Jerry's final section, then we will have no choice but to omit SWC from future issues of FRENEX until such a time it can be resumed with the best editor we can find.

One final thing to mention. Those who plan to or have been contributing articles and features to SWC **SHOULD NOT** hold off sending such to Jerry even though he will be leaving because he will be forwarding whatever he has left over on to the new editor. It is very important that a continuous flow of material be available for the new editor to be able to continue the excellent quality of Short Wave Center.

LAST CALL FOR NASWA DIRECTORY: Those who ordered the 1980 NASWA membership directory should have their copy by now since all advance orders were in the mail as of July 15th. As mentioned in our previous announcements, a limited number had been ordered. Now that all who ordered have been accommodated, we find we can accept additional orders from those who may have missed the earlier announcements as long as the supply lasts.

There is a charge of \$1.00 U.S. postpaid for copies mailed to North American members, and 8 IRC's by airmail overseas. Canadian members can send Canadian currency. Distribution is to NASWA members only, and refunds will be made in case the supply runs out before all request are filled. Order from HQ.

shortwave CENTER



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

AUGUST 1980

Sensitivity

SENSITIVITY: R-7/DR-7 vs. SPR-4

by David K. Maxfield, 2217 Manchester Rd.,
Ann Arbor, MI 48104

When it comes to comparing receivers, published specifications are apt to be misleading, even when issued by reputable manufacturers. Thus makers' blurbs must be supplemented by actual listening experience, or competent reports of same. The respective sensitivities of Drake's recently discontinued SPR-4, as compared with their newly-offered R-7/DR-7, present an unusually interesting case in point.

SPR-4's AM sensitivity was stated in Drake's literature to be 0.5 uV for 10 dB S/N at 30% modulation without use of any preamplifier. Experience of users through half a dozen years apparently justify this claim; for SPR-4 has proved to be one of the most sensitive of all medium-priced receivers, and compares favorably in this respect with radios costing several times as much.

How does R-7/DR-7's AM sensitivity compare on paper with that of SPR-4? Seemingly, not very well. Given the same S/N and modulation, R-7/DR-7's sensitivity is advertised as less than 1.2 uV with its internal preamp in use, and less than 2.0 uV with this device turned off. However, does this necessarily mean that Drake's new \$1500 DX-scooper is significantly less sensitive than their good old SPR-4, which cost much less?

Not at all. Shortwave Center's Jerry Lineback (FRENEX 12/79, p. 7) applied comparison listening to four receivers including both Drake products. He calls R-7/DR-7's sensitivity "as good as or better" than that of SPR-4. Moreover, in a personal communication Jerry recently said: "I could not see any real difference . . . I always felt the SPR-4 was not quite as sensitive as they rated it. I suspect that if the real facts were known, they both ought to rate the same."

NASWA member Larry Magne, who tests new receivers every year for "Listen to the World," states (World Radio TV Handbook 1980, p. 551) that R-7/DR-7 picks up signals "so faint as to go unnoticed on conventional receivers." In view of R-7/DR-7's published specifications, how could such a thing be possible?

To get an answer to this question Drake was recently queried. The reply from one of their engineers, Neil LeSaint, and reprinted with his permission, is as follows:

"The R-7 receiver AM sensitivity is typically 0.8 uV for 10 dB S/N at 30% modulation (preamp on, 4 kHz IF bandwidth), even though it is conservatively rated at 1.2 uV. It is true that the Drake SPR-4 AM sensitivity is specified at 0.5 uV for 10 dB S/N at 30% modulation (4.8 kHz IF bandwidth). However, atmospheric noise determines the useable sensitivity if a shortened, non-resonant antenna is used. In this case, the slight difference in AM sensitivity between the R-7 and SPR-4 would not be discernable. Likewise, if a resonant antenna is used, received signals would be of sufficient strength to be well above the threshold sensitivity of either receiver. It should be noted also, that the R-7 employs a synchro-phase detector for AM reception. Using this type of detector allows selectable sideband tuning (using PBT control) to position the IF pass band to eliminate an interfering adjacent channel signal. When used in conjunction with the 4 kHz IF filter, maximum utilization of the synchro-phase detector is achieved. The dynamic range of the R-7 exceeds that of the SPR-4 by 20-25 dB thereby improving reception of weak signals in the presence of powerful other signals. With all the previously mentioned criteria taken into account, it is seen that the R-7/DR-7 useable sensitivity is excellent."

This letter speaks for itself: Drake's new product has far more useable sensitivity than SPR-4. Although LeSaint refers to a basic (ham) R-7 without the added DR-7 features essential for top SWL/DX work, these features (as Magne and Lineback have explained) only serve to enhance still further the listenability of the newer radio.

Incidentally, this letter indicates that the sensitivity specifications published for the two receivers are not perfectly comparable, inasmuch as slightly different bandwidths were used, and this fact was not included in the specifications.

There are useful lessons in all this. Various manufacturers fail to give adequate terms of reference (e.g. S/N ratio, modulation, etc.) when advertising their specifications. Moreover, some makers tend to overestimate their specifications instead of understating them as Drake does with R-7/DR-7. Unless one has a certain amount of technical sophistication, however, few specifications -- with or without terms of reference -- will really mean very much. Thus in choosing a receiver there is no substitute for hands-on/ears-on comparison -- of your own if at all possible. But, at all events, such experience as reported by Lineback, Magne, and other competent reviewers must be diligently studied.

DXing

IN DEFENSE OF DXING

by Jerry Berg, 38 Eastern Ave., Lexington, MA 02173

It seems that hardly a month goes by without a reference somewhere in the hobby press to the dichotomy between "DXers" and SWLs. Unfortunately, these commentaries appear more and more to reflect a lack of understanding of DXing and DXers, the latter being pictured as a group of selfish radio "freaks" concerned with little else than collecting "meaningless" QSLs. The purpose of this article is to explain what makes the DXer tick, and help bring the DXer-SWL debate into better balance.

Without entering into a long dissertation on the differences between DXers and SWLs, I suggest that for purposes of this article a DXer be defined as a shortwave hobbyist who is interested mainly in logging and (usually) verifying lower powered, less often heard domestic shortwave stations, and an SWL as one who is more interested in tuning the larger broadcasters and listening to their programs. The supposed conflict between the two is, in my opinion, largely a manufactured one. There is a little bit of DXer in every SWL, and vice versa; that each group has chosen to emphasize a different branch of the hobby does not require that the two be totally compartmentalized.

Why is a DXer willing to spend long hours listening to the radio under conditions that make program enjoyment, as we usually think of it, impossible? There are several reasons. First, most DXers enjoy the challenge of the "hunt" as much as the prize. They enjoy the sport of searching for rare radio signals, taking pleasure in matching their knowledge of the bands and propagation, their language and music identification abilities and their general tuning skills against the ionosphere, the QRM and the other factors that affect shortwave reception. They are always eager to test their skills, and so they are always looking for new stations to hear.

Second, while many of them possess no special ability in electronics, DXers enjoy using shortwave receivers and pushing them to their limits, trying to see if such-an-such a station can be heard on their equipment. If they don't hear it the first time, they keep on trying. The combination of man and machine is thus not very different from photography, auto racing, or other hobbies where success depends on a combination of personal skill and mechanical equipment. If this yields enjoyment for the hobbyist, the hobby is, by definition, worthwhile for him.

Third, and perhaps most important, DXers are attracted by things exotic. Through mass communications makes the world grow smaller every day, there is still something unique and fascinating about picking up a radio signal direct from some remote corner of the globe. That it is weak and the programming not entirely decipherable is irrelevant. It is the event, the meeting of two cultures over thousands of miles of airwaves, that counts, that stirs the blood and makes you rush to copy those program details before the signal fades. It is these short, strained encounters that make it all worthwhile for the DXer.

DXers are also collectors. They like to "collect" stations, just as other hobbyist collect coins, stamps, matchbook covers and numerous other things. However, short of taping one's DX, a logging produces no permanent, tangible evidence of having heard the particular station. So -- enter the QSL. While much has been said about the finer points of QSLing, most experienced DXers agree that a QSL is basically just an earned memento of one's listening encounter with a particular station. But they also agree that it is better to have a QSL than to not have one. Of course, DXers know that some stations may not check reports as carefully as others -- indeed may not check them at all -- and thus the quality of verifications varies widely. This is beyond the hobbyist's ability to control, however. All he can do is send the best report possible and hope that the station will check it and reply. Whatever the veri-

fication says is accepted at face value; it is generally impossible to go beyond it.

A QSL is not meaningless, as some SWLs suggest. Whatever it "proves," it is a tangible, earned souvenir of the DXer's contact with the station. It also is a "thank you" from the station to the listener. No matter how general or impersonal it might be, the QSL motivates the DXer to keep tuning the bands, knowing that stations are appreciative enough to take the time to acknowledge reports covering even marginal reception, and knowing also that his report was of sufficient value to warrant a reply.

DXers do more than just log and verify rare stations, however. They also contribute to the overall advancement of the hobby. One way is by performing an ongoing research function. They keep a close watch over the bands - especially the tropical bands -- identifying new stations, noting frequency changes, etc., not unlike the role that SWLs play of the higher, international bands. DX groups also publish useful station lists, such as band surveys and the computerized list of English-language broadcasts that is prepared by the editor of Fine Tuning. And DXers are generally among the first listeners to write to new stations. This tends to uncover new information about the stations and contribute to the expansion of information about broadcasting in general.

DXers help the hobby by promoting standards of good practice in tuning, identifying stations, reporting, etc. An example is the *Guidelines for DXing* prepared by several members of Numero Uno and published in FRENEX in September 1978. By adopting these standards and by urging others to follow them, DXers help keep the flow of shortwave information accurate and complete. They also help insure that reception reports are of sufficient quality to encourage stations to continue replying to their listeners.

Why aren't DXers more interested in program content? If we are talking about the English-language, "international service" type of programming that is mostly easily heard, it is probably for the same reason that most non-hobbyists find it difficult to adapt to shortwave programming: by American standards, most international broadcasting is, at best, mediocre, both as an information medium and an entertainment medium. There are exceptions to the rule -- the BBC, RCI, Radio Australia, the short-lived Rudy Espinal over Radio Clarin, and a few others. By and large, however, international shortwave programming tends to be dull and ponderous and not suited to American tastes. Most international stations are government owned and operated and do not seem to reflect the same objectivity in their programming that we are used to. In short, much of international broadcasting is just not very interesting.

DXers do not ignore the value of "programming," however. The DXer who just wants to pass the time with his radio on will probably tune to one of the international stations. More importantly, DXers do indeed enjoy listening to programming from domestic shortwave stations. Due to language difficulties, the DXer is more likely to concentrate on local music from DX stations, particularly those in South America and Africa. Some DXers have developed a sophisticated knowledge--self-taught or otherwise--of the music of these areas, and utilize it for entertainment as well as for helping to identify stations. So program content can be of interest and a useful tool to the DXer.

The notion that DXers have little real interest in the people and cultures of the countries they hear is also far from accurate. In fact, many DXers are very well informed about the geography and the peoples of these countries. I have found that, as a group, DXers tend to be well read, well traveled and well informed. It is not unusual for them to develop keen interests in particular parts of the world. If they have the opportunity to visit one of these areas they will often stop in at the local radio stations in order to visit with station personnel and see for themselves a broadcaster whose signal may have just managed to poke through the ether. And while some SWLs decry the supposed impersonal approach of DXers sending out reception reports just to amass a collection of "meaningless pieces of paper," in fact contacts between DXers and DX stations are often highly personal. Reports are individually prepared, and DXers often enjoy the thrill of receiving fairly lengthy, personal responses from small stations that consider it a real novelty, and perhaps encouraging, to receive a report from far away. There is probably more genuine person-to-person contact between the station and the listener in the DX community than in the realm of international broadcasting. It is the DXer, not satisfied with what is broadcast over an international service, who may have the real interest in knowing what a foreign country is really like, though he may have to satisfy that interest at the library as well as at the receiver.

No discussion about DXers would be complete without some response to the oft heard complaint that they are "elitist," revelling in their 200-plus country totals and disdainful of other hobbyists. The charge seems to stem mainly from the fact that some DXers belong to what are sometimes erroneously referred to as "closed" hobby groups such as Numero Uno or Fine Tuning. Unfortunately, the nature and purpose of these organizations is not well

understood. Their main activity is to provide a forum for the sharing of DX information among active DXers. They do this by the publication of weekly mini-bulletins of one or several pages. They are specialized publications for a small group with specialized interests. For this reason they function under certain inevitable limitations. First, participation is limited to active DXers who are willing to contribute high quality DX information on a regular basis. Thus the groups operate on the basis of strict reciprocity. A participant must contribute; he cannot just sit back and benefit from the work of others. This in itself limits the number of potential members, since there are relatively few such active DXers who are willing to contribute material week after week. Second, since these sheets are published every week or so, and are usually run by one or two individuals in their very limited spare time, the number of members must be limited so that the physical task of publication is kept manageable. Numero Uno has about 25 members, Fine Tuning about 50. In principal, all such groups would like to include as many active DXers as possible because this would enhance the quality and comprehensiveness of the information exchange. Indeed, any DXer who is genuinely active and willing to contribute and who accepts the standards of thoroughness and accuracy that these groups adhere to will not only be welcomed in, they will be sought out by them. And, of course, there is no restriction on a member contributing his DX information to the large clubs or to anyone else. Most members do so, although it does not reach the club membership as quickly due to the longer lead time involved in publishing a large bulletin.

What is the future of DXing? It is difficult to say. The thrill of hearing radio signals from far away places will continue. Theoretically, the availability of more advanced receivers should open up the hobby to more people. But my guess is that the DXing fraternity will remain small, as it always has been. Whatever its future, it is important that the contributions of DXers to the shortwave hobby be better understood, especially by those who don't necessarily share their interests.

Weather?

STILL MORE ON WEATHER AND DX

by Jerry A. Lineback, SWC Editor

Those interested in the relationships between weather and ionospheric phenomenon should read the interesting article titled "Solar wind control of the earth's electric field," that appeared in the 30 May 1980 issue of *Science* (Vol. 208, no. 4447, p. 979-990). The authors were Ralph Markson of MIT and Michael Muir of the University of Natal, RSA.

Among the ideas presented in this review article, the following caught your editors eye and I pass them on to you.

1. The earth and its atmosphere form a natural capacitor with an electrical potential existing between the ground and the ionosphere. Thunderstorms are the main generators of the electrical field. Electrical flow takes place from the earth, through the thunderstorms, into the ionosphere. A return flow to the earth takes place through the air in the fair weather regions. Thunderstorms exist continuously somewhere on earth, if they did not, the earth's electrical field would disappear.

2. Electrical flow in the atmosphere is enhanced by an increase in ionizing radiation reaching the earth. The main source of ionizing radiation is cosmic in origin (i.e., outside the earth-sun system). The presence of charged particles from the sun (solar wind) generates an electrical field when the particles encounter the earth's magnetic field (magnetosphere). The electrical field thus generated by solar wind-magnetosphere interactions tends to deflect and reduce cosmic radiation reaching the earth's atmosphere. Therefore, an increase in the solar wind (at earth) due to sunspot activity on the sun acts in the long term to reduce the total of ionizing radiation reaching the ionosphere. (There obviously is an initial increase in ionization due to the particles themselves reaching the earth.)

3. "An amplified fair-weather electrical field in the troposphere or enhanced conductivity in the lower stratosphere introduces the possibility of positive feedback through an increase in cloud electrification." (i.e. more and stronger thunderstorms).

4. Therefore an inverse relationship between solar activity and the atmospheric electrical field may exist. If an increased ability of the electrons to flow in the field can produce or enhance thunderstorm intensity, then that inverse relationship may be extended to weather conditions. That is, more and more intense thunderstorms (increased precipitation and increased cloud albedo) will take place during times of low solar activity during the 22 year sunspot cycle. This relationship may be demonstrated statistically. The coupling of storm activity to electrical field cycles due to solar cycles provides a mechanism. (Note: the present hot spell in the south and lower mid-west is due to a persistent fair-weather pattern.

This fair-weather pattern might be broken up or cooled off by thunderstorm activity. It has not been. This is a time of maximum solar activity during the peak of a period of greater solar activity. Therefore the earth is presumably being protected from cosmic radiation by increased electrical fields due to magnetosphere-solar wind interactions. Hence less ionization, less electrical flow possible between the earth and the ionosphere and fewer thunderstorms. This equals hot dry and clear weather over large parts of the earth. Is this the real cause? The authors of this article are not positive, but suggest that these mechanisms be investigated.)

Now as to weather and DX, the following is my conclusion and not that of the authors. If there is a strong electrical flow in the ionosphere in the vicinity of thunderstorm activity, particularly that associated with a frontal system, would not this increased flow enhance ionospheric refraction of radio waves, particularly at the critical last atmospheric skip point before reaching your antenna? This may account for the sporadic-E layer skips sometimes noted in association with weather systems and for some phenomenon noted in previous articles on weather and DX. One additional thought on this is that if the above is true, then the maximum ionization and maximum electrical flow (storm activity) actually takes place during the minimum periods of the approximately 22 year long cycle of solar activity. A possibility may also exist of influence by the monthly variations in solar flux associated with the rotation of the sun. (Remember that the measurements of solar flux are a measurement of radiation from the sun and not the total of ionizing radiation reaching the atmosphere.) The study reports that both cosmic radiation and the air-earth electrical flow are significantly higher during the minimums in solar activity.

IBC

THE STORY OF IBC-ITALIAN BROADCASTING CORPORATION

by Jean-Jacques Bloch, Paris, France

During the weekend of 25 May, I met the young manager of IBC, Stefano, in Paris. He gave me many details on this relatively new shortwave station, and here is a report.

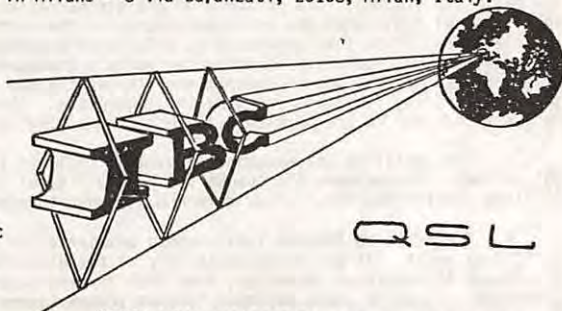
The first test transmission took place on 3 July 1979 on 6240 kHz, 1200-1230 GMT, with a power of 6 watts. Regular broadcasts started every Sunday from 16 September 1979. The transmitter power was progressively increased to the present level of 25 watts on 6250 kHz. Stefano built the transmitter himself. He is now assisted by a group of about 20 people for programs in English, Italian, German, French, and Farsi. They play modern Iranian music during the Farsi program. As this kind of music is now prohibited in Iran, getting the tapes is not an easy operation.

The transmitter on 6275 kHz for "National Service" in Italian is off the air now, but should be operative again in late June. Tests are scheduled on 17940 kHz with a power of 100 watts starting from mid-June. The frequency of 26005 kHz could be tested in September. Tests to America (meaning an early sign on at 0600 on Sunday Morning) will take place in October, 1980. During the summer months of July and August, the young personnel at the station take some vacations, regular programming will resume in September, however tapes will be sent on the air during the summer months. Swedish, Greek, Spanish tests are also scheduled in September.

The station studios and antenna are located close to Florence, in central Italy, but the QSL address is through Play DX in Milano - 8 via DaVanzati, 20158, Milan, Italy.

Although private radio stations are allowed on MW and FM in Italy, operations on SW are still prohibited and publicizing the station has to be done in a careful way.

Stefano is eager to receive reception reports and comments on programs from abroad, but program details have to be specific enough for a QSL to be sent. So far one report has been received from the states, but transmission time was wrong and the report has not been verified. About 100 reports have been received and confirmed from listeners in Germany.



ITALIAN BROADCASTING CORPORATION

Receiver

HOMER EP-8 MINI RADIO

by Randy English, 1015 Dayton, Davison, MI 48423

When Radio West advertizes that this is a small radio, they are not exaggerating. This radio measures 2" x 3" x 1". Not only is it small, but also a two band. This discussion will only consider the shortwave band. The coverage is 3.9 to 12 MHz. The first thing that comes to mind is the question, "Is it a toy?" The answer is definitely No! The shortwave reception is as good as advertized with very adequate reception of the larger shortwave stations.

The reception is best after 0200 GMT and improves dramatically after sundown. This test was in mid-Michigan with dusk at 0130 GMT. An external antenna is usually needed for most shortwave stations. I looped a lamp cord lengthwise, held in place with a strong rubber band. The first station received was Radio South Africa with a strong and clear signal. Later tests would result in reception of Kol Israel, Radio Moscow, Deutsche Welle, BBC, Radio Havana Cuba, RCI, Radio Cairo, and several Spanish speaking stations.

The Homer EP-8 is quite sensitive to the high powered stations and due to the spacing of the stations selectivity is no major problem. The radio has no internal speaker, but it is supplied with an excellent earphone. The earphone cord is too short when using an electrical cord unless the electrical cord is quite long.

The biggest problem with this radio is that tuning is a fine art, and I do mean a fine art. Due to the limited size of the tuning dial, one must take extreme care, but patience is rewarded. The second problem is that little can be heard below 5 MHz. Perhaps this is due to my location, but I doubt it as the number of high power stations below the 49 m band are few in number. The value of the radio would be greatly increased if the coverage extended from the 19 m through the 49 m bands.

The cost of this mini-radio is \$30.00. Is it worth it? Yes, if your primary interest is SWling those stations with a strong English or Spanish language broadcast. I purchased the radio to receive the BBC when not near my regular set or when traveling. The Homer EP-8 does this excellently. I have recommended it to several friends who have not been shortwave fans but are intrigued by its reception and small size. One can only wonder what the Japanese will or are building using large scale integrated chips and a few more dollars.

DEUTSCHE WELLE RELAY SITES

by Ralf F. Munster, 307 Adair St, H-9, Decatur, GA 30030

Occasionally a column editor invites his readers to be sure to indicate the correct sites for SWBC with relays. While this is simple enough for the BBC, VOA, RN and some others, it becomes next to impossible for the USSR unless one at least subscribes to Roger Legge's UHN and is far from easy for the Deutsche Welle (DW) since they do not publish a sufficiently detailed schedule. To be sure, the WRTVH gives sites (presumably for D-79) in the 1980 edition, but these do not necessarily remain up to date. Similarly the BBC MS publishes a list and I have seen this for November, 1979, annotated "per Deutsche Welle" and according to an unknown hand "revised 5/80. I have found even this to be inaccurate in a few instances (though it is possible that later issues of the BBC MS contain revisions not available to me).

Under these circumstances I recently wrote Herr G. G. Thiele and inquired why the DW does not include in its Deutsche Programm the sites for its various transmissions and was informed that while they would be glad to give me these data, they "could not guarantee that the data would not be changed in the near future (and that) this is the reason why they do not have any publications of this kind available." (My translation.) Given this situation there is one additional thing a SWL can do and that is to listen at the very beginning and the end of DW transmissions for the sites being mentioned. But even this is not an infallible means for several reasons. First, transmissions from Germany itself do not make a distinction between Wertachal where there are nine 500 kW transmitters (one of which is on standby) and Julich where there are ten 100 kW transmitters (of which one again is on standby). Second, similarly the transmissions from the Caribbean do not make a distinction between Antigua (2 x 250 kW) and Montserrat (1 x 50 kW). Third, transmissions relayed via Sackville (2 x 250 kW) through arrangements with the CBC usually start in mid-sentence (or musical bar) and appear never to be identified at the end (currently primarily on 9605 kHz, when functioning). Fourth, observation shows that there can be occasions when the DW superimposes one site ID upon another as happened for example on 13 June at 0150 on 9565 kHz, so that one has to use one's judgment or listen again another time. Fifth, the mere datum that a particular frequency is served from one site for one program, is obviously no guaranty that it will so be served for another

program since target areas are apt to be different. With the exception of a 600 kW MW transmitter on Malta, all other relay station transmitters are 250 kW. What the power of the transmitters at the planned site in Sri Lanka will be, I do not as yet know. In the meantime here are the current locations and beams of the transmitters for the late German programs for North America as communicated to me in a letter received 10 June.

0200-0550: 6065 Antigua, 340°; 6145 Wertachtal, 300°; 9735 Wertachtal, 285°
 0200-0350: 11795 Malta, 260°
 0200-0430: 6100 Malta, 290°
 0330-0550: 9605 Sackville, 70°
 0400-0520: 9545 Antigua, 340°; 11705 Montserrat, 180/360°.

Why the Deutsche Programm regularly lists 3995 for the Americas is not clear to me since, judging by announcements on the air, it appears to be intended purely for Europe. On the schedule Herr Thiele sent me it is marked N/D, presumably meaning non-directional, though it could conceivably also mean "Nord-Deutschland" for Julich whence, I should guess, the transmission originates. One tip in conclusion: Modulation on transmissions from Germany, especially on 9735 is so superior that any confusion with transmissions from relay stations is not really possible.

Antenna

THE MFJ-1020 ACTIVE ANTENNA- A USER REVIEW

by Frank Howell, Dept. Sociology, Mississippi State University, Mississippi State, MS 39762

A recent purchase has been the new model 1020 Active Antenna by MFJ Enterprises, Inc., P. O. Box 494, Mississippi State, MS 39762. As an apartment dweller with very limited provisions for constructing outside longwires, the MFJ-1020 would appear to be a reasonable compromise since it also doubles as a preselector for inside (and outside) antennas. Housed in a 5 x 2 x 6 inch Ten-Tec box, the antenna has a 21 inch collapsible whip which feeds a small tuned FET amp. The frequency coverage is from 300 kHz to 30 MHz. The tuned aspect distinguishes the MFJ-1020 from the McKay-Dymek and Radio West active antennas. When an external antenna is connected, the internal whip must be collapsed since they are in series; additionally, the external input is high impedance. Powered by a 9-volt adapter (supplied), it is also portable with a 9-volt battery installed internally. The ON-OFF/BYPASS switch connects either antenna directly to the receiver (via OUTPUT) in the BYPASS mode. In addition to the power switch, a five-position band switch, tune, and gain controls all appear on the front panel, along with a red LED indicating a power-on condition. The rear panel has RCA phono jacks for the external antenna and output while a 2.5 mm sub-mini jack is for the 9-volt adaptor. MFJ (and I) recommend using a shielded cable between output and receiver to prevent oscillation.

My experience to date (about 2 months) with it has been generally positive. Suffering from a shack location within 30 feet of the main power distribution port for the apartment complex, I've used a combination of a CB whip, a 31 meter dipole taped to the baseboard, a 35 ft. "invisible" long wire from my second-floor patio to bedroom window, and a Worcester SM-2 ferrite loop for CB to feed my FRG-7000 with 2.9 kHz mechanical filter. On the negative side, the unit is susceptible to electrical noise (as MFJ cautions) but this is aided by a good ground connection to the MFJ-1020. The tune control is somewhat crude, especially at the higher frequencies (11-30 MHz), and requires a steady hand and a sharp eye on the S-meter. Also, there is not as much effective gain beyond 20 MHz where it is needed, in my opinion. Overall, though, the MFJ-1020 fares well, even in a noisy and less-than-satisfactory location as mine, in comparison with the three above mentioned antennas. The CB loop really out-distances the MFJ-1020 on that band, however.

The table below summarizes a recent set of comparisons among these antennas, all feeding the FRG-7000. No results below 540 kHz were possible due to transformer noise. Also, comparisons were from 0250-0400 GMT except for 17820 and above which were made during the next afternoon (locally) under more optimal band conditions. Legend: Whip=indoor base-loaded CB whip; 31M = 31 meter dipole, indoors; LW = 35 ft. longwire, 30 ft. high; MFJ = 1020; g.t. = greater than; b.t. = better than; l.t. = less than; w.t. = worse than.

FREQ.	ANT.	RESULTS
550 khz	Whip	zilch
	31M	S-0.5; audible
	LW	S-1; audible
	MFJ	+10db; audible; Noise(nx) g.t. LW & 31M

1.010 mhz	Whip 31M LW MFJ	zilch S-0; barely audible S-0; audio b.t. 31M S-6; nx g.t. LW
1.580 mhz	Whip 31M LW MFJ	zilch S-4; audio = o.k. S-4; audio = good; nx = zilch +30db; audio = good; nx = zilch
2.500 mhz	Whip 31M LW MFJ	zilch S-0; WWV barely audible S-1.5; audio b.t. 31M; nx = moderate +10db; audio w.t. LW; nx = severe
3.827 mhz (ssb)	Whip 31M LW MFJ	S-0; barely audible S-0.5; audio b.t. Whip; nx = moderate S-1.5; audio = 31M; nx = moderate S-9; audio w.t. LW; nx = terrible
3.903 mhz (am)	Whip 31M LW MFJ	zilch S-0; barely audible; nx = o.k. S-3; audio b.t. 31M; nx = minimal +20db; audio = LW; nx g.t. LW
5.000 mhz	Whip 31M LW MFJ	S-0; WWV sporadically audible S-7; audio = good; nx = moderate +10db; audio = 31M; nx l.t. 31M S-7; audio l.t. 31M; nx g.t. LW, 31M (high)
6.030 mhz	Whip 31M LW MFJ	S-0; sporadically audible S-4; audio = o.k. S-9; audio = LW; nx l.t. LW +20db; audio = LW; nx l.t. LW
7.770 mhz	Whip 31M LW MFJ	S-0; audio = weak; nx = o.k. +5db; audio = good; nx = nominal +20 db; audio = 31M; nx = 31M +30 db; audio = LW; nx = LW
9.770 mhz	Whip 31M LW MFJ	zilch +10db; audio = crisp, good; nx = zilch S-9; audio = good; nx = minimal +20db; audio = 31M; nx = zilch
11.770 mhz	Whip 31M LW MFJ	S-5; audio = good; nx = minimal +20db; audio = good; nx l.t. whip +20db; audio b.t. 31M; nx l.t. 31M +40db; audio w.t. LW, b.t. 31M; nx = minimal(= LW)
15.584 mhz	Whip 31M LW MFJ	S-0; audio barely audible S-4; audio = o.k.; nx = moderate S-7; audio = 31M; nx slightly g.t. 31M S-9; audio w.t. LW; nx w.t. LW (noticeably)
17.765 mhz	Whip 31M LW MFJ	S-1; audio = o.k.; nx = minimal S-1; audio = Whip; nx w.t. whip(slightly) +10db; audio g.t. 31M; nx l.t. 31M +20db; audio = LW; nx g.t. LW(slightly)
21.460 mhz	Whip 31M LW MFJ	S-0.5; audio = o.k.; nx = moderate S-0; audio = whip; nx = whip S-7; audio = 31M; nx = 31M +15db; audio = LW; nx g.t. LW
27.265 mhz	Whip 31M LW MFJ	S-6; audio = fair; nx = zilch S-0.5; audio w.t. Whip; nx g.t. Whip S-4; audio = Whip; nx = Whip S-9; audio = good (b.t. LW); nx = zilch

Although I am not able to evaluate the "tuned vs. broadband" approaches to active antennas, the MFJ-1020's tuned circuit reduces images or overloading signals somewhat (I'm located in the shadow of a local 1 kW BCB station). It would be interesting to get a side-by-side reading on the MFJ, Radio West and McKay-Dymek models. The MFJ-1020 is less expensive, available for \$79.95 plus handling, \$35-60 cheaper than its competitors. It functions as a preselector-tuner for external antennas (my LW) fairly well and has not overloaded the FRG-7000 yet. MFJ is moving into the SWL market with product lines, and promises to have auto-converters and a code reader (teletype-compatible for hard copy) soon.

Write MFJ at the address given above or call for technical information at 601-323-5869 or for orders call 800-647-1800. They have a new catalog available.

THIS & THAT

ALL THINGS MUST CHANGE

There have been increasing demands on your editors time, both at work and from a growing family. Also, I have been a FRENDX editor for nearly 8 years, meeting a deadline each and every month. Thus, I have given a tithe of my life for the betterment (hopefully) of NASWA-FRENDX and the shortwave hobby. Meeting the deadline is becoming increasingly difficult. Also, others should have the opportunity to serve. Thus, I have submitted my resignation as editor of Shortwave Center to the Executive Director of NASWA. It will be effective as soon as a new editor is selected.

I have enjoyed communicating with the many contributors to SWC over the years. I appreciate the effort each and every one of our contributors has taken to prepare articles to publish in FRENDX. Without your efforts, there would have been no Shortwave Center. My hearty thanks to all.

Mac Leonhardt should have already made mention of this action in the Headquarters section. I hope to be able to continue to serve FRENDX in some non-deadline ways. I also hope to have more time for DXing.

CONSUMER REPORTS ON SHORTWAVE RADIOS

You may be interested in a review of several popular shortwave radios that appears in the July 1980 issue of CONSUMER REPORTS. The author is unknown, but it must have been someone reasonably knowledgeable in the hobby. The receivers reviewed were the FRG-7 and 7000, Sony ICF6700 and ICF5900W, Panasonic RF-4900, 2900 and 2200, Nordmende Globetrotter 808, Kenwood R-300, Sanyo RP8880, Zenith Trans-oceanic R-7000 and the now discontinued Realistic DX-300 and DX-160.

The receivers reviewed were all stock models. The main distinction used to rate them was the ease of tuning. Those with digital readout or calibrated band-spread dials ranking ahead of the more difficult to use drum or slide-rule dial models. The review mentions selectivity and quotes the famous 4 kHz selectivity standard, but does not attempt to rate them by that criteria, since they all have relatively poor selectivity by DX standards.

The reviewer selects the FRG-7000 as the best receiver of the lot and notes that it is very much better by the criteria used and gives it the Consumer Reports check. It is also the most expensive radio tested. The DX-300 ranks relatively high, otherwise we are inclined to go along with the ranking shown. The article contains some background information on shortwave listening and antennas. DXing is not mentioned but is referred to as "fishing" the air waves. There is a statement, "An avid shortwave listener would probably think nothing of spending several thousand dollars for shortwave equipment." This sounds incongruous to those of us who courted divorce and financial disaster to pay \$1500 for a Drake R-7. Also the price quote on the DX-300 is the close-out price, a fact not noted.

Otherwise, take a look if you are interested.

R. Candip

RADIO CANDIP

by John Campbell, UK

Apart from the various government controlled general stations in Zaire, news of the existence of a separate educational station has surfaced in the past few years. This is the station in Bunia which is listed in the 1980 WRTVH as Radio ya Masongo na Maendeleo. The name is a Swahili version of the original French language description of the station, "la radio scolaire et (du?) developpement", but the actual present name of the station is R. Candip (R. Gandit per WRTVH).

The station originated as an educational service to assist primary and secondary teaching in Roman Catholic schools in the diocese of Bunia in 1969. But that service ended because of technical difficulties in 1972. A successor, under the name of R. Candip, opened in 1974. It is now a part of the government sponsored Institut Superieur Pedagogique in Bunia. The station's address in B.P. 373, Bunia, although letters addressed to its religious program production unit at B. P. 19 will also be delivered.

The main program material of R. Candip is educational with emphasis on rural development: agriculture, animal husbandry (in collaboration with the Bureau du Projet Ituri, which is sponsored by the World Bank and which helps local cattle owners), fishing, health education, and similar material. R. Candip makes a major issue out of feedback from listeners, and actively encourages groups of listeners and their friends to form circles to discuss the form and content of programs, and to write criticisms to the station if they wish. It also acts as a resource center and has an advisory service and a system of liaison with schools and with study groups in districts too remote to be served by the schools. News bulletins, sports, and recreation programs, and religious broadcasting, complete the bill of fare.

The intended area of coverage is the government sub-district of Ituri, the highland region to the west of Lake Albert. Besides transmissions in French, Swahili, Lingula mentioned in WRTVH, R. Candip uses the two main Ituri languages, Kilendu and Alur, and seven more localized vernaculars.

Frequencies of 3390 and 5068 listed in WRTVH are OK, but the latter seems to be nearer to 5066 lately. Normal schedule is daily except Sunday 0400-0730, plus Monday through wednesday 1500-1900; Thursday and Friday 1500-1830, Saturday 1230-1730 and Sunday 1230-1715. They welcome reports; give them a listen! (the 0400 sign-on is obviously the best chance for a North American reception-JAL).

Polish

ROZGLOSNIA HARCERSKA (Polish Pathfinders Station)

Pathfinders

via Jerry Berg

This station is broadcasting on shortwave in the 49 metre band on 6195 kHz, 6-8 hours daily. On week-days between 1100 and 1700 GMT and from 0900-1700 GMT on Sundays. They use a Windom Quadrant type of antenna and a Telefunken 1 kW transmitter with anodal screen modulation.

About 60% of their broadcasting time is devoted to popular music, mainly of teen-age appeal. Polish youth form only part of their audience. Since the station is heard in most of Europe, some of their programming consists entirely of music from abroad. These programs bring them thousands of listeners from many countries, some of them well outside Europe.

The Polish Pathfinders Union is probably the only youth organization in Europe that owns an independent radio station with regular programs. The signature tune of the station originated from the popular Pathfinders song, usually sung by the campfire. The station is under the patronage of the Polish Pathfinders Union, the organization for boys and girls between 10 and 18 years of age, bringing together over three million youths.

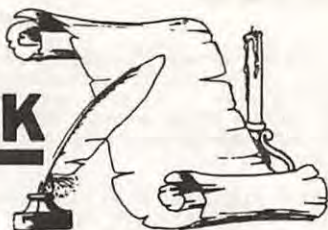
The idea for the station developed in 1957 when a group of young Pathfinders and their instructors met to discuss the best possible way of keeping in touch with Union members all over the country. One of them suggested shortwave communication. The idea was accepted enthusiastically and was decided to seek the assistance of the authorities. The first step was taken successfully and the young promoters soon discovered themselves in charge of a handsome amateur Radio Station.

Today, the Polish Pathfinders station is working in large studios, with professional engineers, editors, and a considerable number of free-lance journalists, employing fully modern and mainly made in Poland equipment. The intent from the beginning was to have a constructive program and it is regarded as the leading one in the country for its quality and pedagogical value. Most foreign reception reports come from Europe, but many from Japan, USA, USSR, etc. They are happy to send QSLs for correct reports.

THANKS TO OUR CONTRIBUTORS, 73 till next month.

Listeners NOTEBOOK

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ENGLISH SCHEDULES **ALBANIA** Compared to the WRTVH 80, a R. Tirana sked as of 26/6 in BBCMS WBI shows only a few changes for English-- (the station does not normally make quarterly frequency changes)--The insudible Nam svc at 1230-1300 is on 9515 and 11965 ex-11985 (latter now in Russian). Persian has been added, resulting in some deletions in English frequencies--Af 1730-1800 now on 15440 only; Eu 2030-2100 7065 and 1395, with 9480 turned over to Persian (gh)

AUSTRALIA R. Australia's tentative S80 (starting the first Sunday in Sept) schedule, prepared far in advance and subject to further changes shows that 21740 (50 kW Shepparton, 63°) will be extended to a span of 0000-0600 (presumably first hour and perhaps the last in French), resulting in a de-facto expansion of the North American service. The same beam with 100 kW from Shepparton on 17795 is scheduled for 1800-0630, so when propagation, QRM and language allow, that's also Nam svc tho officially 0100-0300 only. 17795 also used on 353° 100 kW beam at 1130-1730, surprisingly well heard at times in Nam. 15320 is being dropped completely (gh)

BANGLADESH R. Bangladesh hrd 13/5 1245-1300 on new 21640 (Troels Warberg Pedersen, DSWCI) EG at 1230-1300 now on 21770 and 15285 ex-21690 (WBI 10/77)

CAMEROON Main EG pgm is daily 1700-1845, on 9745, Yaoundé (G. Nattrass, RSA, QTH Africa 20/6)

CANADA The CBC Northern Service, per its SW schedule effective in May is now officially known as 'CBC Northern Quebec Shortwave Service', reflecting its shrinking mandate. From the full schedule appearing in August RIB I extract the following times for English: Mon-Fri 1200-1213 1313-1500, 1600-1613, 1800-1830, 2200-2230. Sat 1028-1200, 1310-1405, 1500-1705, 2215-0100 Sun 0300-0507, 1103-1600, 1735-1900, 2000-2300. Mon 0000-0100, 0230-0507. Tue-Sat 0400-0416 and 0500-0507. This may not be exactly correct as program titles may be misleading; and CBCNQ SWS makes changes at a moment's notice. As of last April, RCI expected to make these changes for S80: 'Sunday Morning' first hour 1300-1400 moves from 17880 to 17860 beamed south. 15160 at 1545-1600 cuts back from daily to Mon-Sat only. 21695 returns, at 1545-1600, 1645-1700, 1900-1930 (Eu), 2000-2030. (Too bad they can't manage a 13m fq yearound while the flux is up!) The relay to ME Mon-Fri 0615-0630 & 0645-0700 moves from 15440 to 15265. Daventry relay to Eu 1900-1930 & 2000-2030 on 5995 ex-9555; CBC relay Mon-Fri 2100-2300 on 5955 ex-6170. Mon-Fri 0615-0630 & 0645-0700 Eu 9655 ex-9760. There may be further changes. Per Ian McFarland, it is likely also that as from S80 the 2200-2400 segment to Nam on 5960 and 9755 (if the transmitter for the latter is functional) will be extended to Sats & Suns to include domestic relays such as 'Quirks & Quarks'; see also DX PROGRAMS, LN-10 (gh)

CHINA EG lang lessons now in Peking HS Pgm II, 2130-2200 S/T/W/T/F (A. Yamanaka, ABI, ADXN)

COSTA RICA Undated sked from TIFC shows EG: Tue-Sat 0300-0405; Sun 0305-0400 & 1935-2200; Mon 0235-0435. Fqs: 9645 6175 6035 5055 1075 97.1 MHz FM. All pgms seem to be evangelical, except for a News Report, Suns 2005-2020--might be worth checking for C.A. developments (gh, From info via Rowland F. Archer, Jr., Hillsborough NC)

CZECHOSLOVAKIA R. Prague: Ams 0100-0200 & 0300-0400 on 11990 9740 9540 7345 5930. Af/FE/EAs/Pac 0730-0800 & 0830-0900 (Sat/Sun 0930) on 21705 17840 11855; 1430-1500 on 21505 17840 17705 15110 11990 9605 7345. Af/SAs/FE/Eu 1530-1625 on 21505 17840 15110 11990 9605 7345 6055. Eu 1630-1700 7345 5930. Af 1730-1825 21505 17840 11990 9605 7345 5930. 1900-1930 Eu 7345 7245 5930. 2000-2030 7345 5930. Eu. 2130-2200 Eu 6055 1287. Also, the multi-lingual 'Inter-Programme' includes EG, to Eu: 0745-0800, 0845-0900, 0945-1000, 1045-1100, 1145-1200 (except Sundays 0900-1200 there's a request concert) on 9505 6055 1287 1071; to Eu/Nam 0030-0055 on 9740 6055 1287 (WBI 26/6)

FRANCE On 3U/6 France-Inter started svc for EG-speaking tourists in France, 2-min nx bulletins after FR nx at 0700 & 1400; on 164 LW, MW, VHF (WBI 3/7) Last year was on SW too (gh)

- GERMANY WEST** As of 1/7, DW replaced 9605 with 15105 for Nam 0120-0150 (SCDX 1/7) Believe it's Malta; had conflicted with Vatican, which did not want to go to 9645 instead (gh) DW EG to ANZ 0930-1030 on 15160 ex-15235 (Arthur T. Cushen, NZ)
- INDIA** Further changes to ATR GOS: NEAs 2245-0115 11815 ex-11810, 15280 ex-15375 (Alok Das Gupta, India, Australian DX News July)
- KOREA SOUTH** (Cf July LN-1) R. Kores at 1900 to Eu is actually on 6480 the 6840 is announced (James C. Clifford, Bamberg, W. Germany) That's what they get for weird o.o.b. fqs, hi (gh)
- MALAWI** MBC has dropped 4mb 7130 and is using only: 3380 0300-1115 & 1300-2210; and 5995 0400-1715v, in EG & vernaculars; 7130 to resume in Sept (Richard Ginbey & Miki Včelař, QTH-AF)
- MALTA** R. Mediterranean hrd with 'Malta Calling' 0700-0730 on 9550, but may be changed to 9670 now (Wolfgang Břscheil, GFR, WWDXC June) Sat only still? (gh)
- MONGOLIA** New outlet for Ulan Bator is 11825 noted //6383 for several xmsns including EG 1220 Mon-Sat and 1715 too (Shigenori Aoki, NDXC via ADXN July) Anc'd as "11.82 and 6.38"; ex-12070 at 1220 (Peter Bunn, ADXN July) Moscow is a bad influence on them (gh) Bunn's was on 2/7
- MOZAMBIQUE** Int'l svc in EG still using 9600 and 1814 at 1100-1130 (QTH Africa 20/6)
- NEPAL** Despite a recommendation to use 60m instead of 90 in summer, R. Nepal continues hrd on 3425 and 9590, including EG for India at 1435-1520 (WBI 26/6)
- NETHERLANDS ANTILLES** A sure sign of solar flux decrease is TWR's plan to revive 11815 for the 50 kW Nam svc in EG 1100-1230 as of 580, but still 15255 for the weekend extensions to 1330 on Sat and 1415 on Sun. In past years their changeover was not exactly at 1230 (gh)
- NEW ZEALAND** Realizing that with its low power it must make every effort to escape QRM, R. New Zealand is increasing its out-of-band usage: For the period 1800 6/9 until 1215 25/10, RNZ sked for Pacific & Nam svc is: 1800-2150 11675, 1800-0815 15485, 2200-0630 17860, 0640-1030 11945. Au 0830-1215 11945, 1045-1215 6105. For the DST period of 1700 25/10 to 1115 7/3/81, RNZ to Pac & Nam 1700-2005 on 9890 or 15485; 1700-2145 11675, 2015-0715 15485, 2150-0530 17860 0540-0930 11945. Au 0730-1115 11945, 0945-1115 6105 (Tony King, RNZ, at ANARCON 80, 19/7)
- NIGERIA** FRCN Kaduna on new 4770, seems to vary ± 2 kHz, 0450 past 0532, in EG and vernacular--Hausa?--at first not // 4990 but was at 0532 (Max Greenwood, PA, 25/6) Cf July LN-13. Presumably 250 kW, 4770 freed by ELWA's move, with EG and verns 1600-2315 (QTH Africa 20/6) *0430 //6090 9570; also 2000-2315*, in EG & Hausa (Ginbey, DXJB 10/7) 250 kW 6090; 9570 4770 50(WBI)
- NORWAY** R. Norway tentative S80 (EG Sns + GMT Mons); probably be a few changes before goes into effect. 0800-0830 50 Pac 15135, 45° FE 21730, 245° ANZ 11850. 1200-1230 ND Eu 6015, 60° SAs 21730, 95° ANZ 25730. 1400-1430 150°ME 21655, 185°AF/Med 9590, 275°SAm 17840. 1600-1630 225°SAm 21670, 330°WNAm 15175, 310°WNAm 21655. 1800-1830 135°ME 21655, 185°AF/Med 21670, 330°WNAm 15175. 2000-2030 25°Pac 11860, 50°Pac 15170, 185°AF/Med 15345. 2200-2230 250°SAm 15175, 275°SAm 15135, 290°SAm 15345. 0000-0030 50°FE, 225°SAm 15170, 290°SAm 15345. 0200-0230 250°SAm 9590, 310°WNAm 9595, 330°WNAm 15175. 0400-0430 355°Pac 9500, 95°SAs 17840, 290°SAm 11895. 0600-0630 150°ME 15175, 125°ME 21655, 330°WNAm 9645 (NTA)
- PAKISTAN** R. Pakistan to Eu in EG extended to one hour: 1645-1745 on 11675 15485 (Edwin Southwell, England, June WDXC Contact)
- POLAND** R. Polonia: 0200-0400 (also Polish) NAM 15120 11815 9525 7270 7145 6135 6095. 0630-0700 Eu 9675 7270 6135. 1200-1230 Eu 7285 6095. 1230-1300 Af 15120 11840 9675 9525. 1600-1630 Eu 9540 6135. 1630-1725 Af 9675 7125 (also: 1630-1700 11840 9525; 1700-1725 6095). 1830-1900 Eu 7285 6095. 2000-2030 Af 9675 9525 7145 7125. 2030-2100 Eu 7285 6095. 2230-2300 Eu 7270 7125 6135 5995 1503 (WBI 3/7)
- TANZANIA** R. Tanzania again using 6105 //15435 for IS in EG & Verns 1530-1945v; fq has /sic/ been off for some time and is now using 50 kW (QTH Africa 20/6)
- UKOGBANI** (Cf July LN-2) Completing the picture of BBC's move off 21710 at times due to Israel is my observation that 21690 is being used at 2115-2245 (gh)
- URUGUAY** CX14, El Espectador, 11835, carries a religious pgm in EG Thurs 1700-1730 called 'Hours of the Session' (Horacio A. Nigro, QSN, via SCDX 24/6) I'll bet it's really Billy Graham's 'Hour of Decision' I serving a purpose he never dreamt of (gh)
- U S A** AFRS observed on 16455 LSB at various times such as 1900 and 0245 (Jim Conrad, IA, 4/7)
- WYFR** S80: Eu & Af: 1230-1550 Sun 21525 17785; 1705-1800 21615 17845 15440 21465. 1800-2000 21615 17845. 2005-2100 21615 17845 21525. 2100-2255 11875 17845 21525. 2255-2400 21525. Ams: 0000-0100 17845, 0105-0500 9715, 0505-0600 9705 (WYFR)
- U S S R** R. Kiev 0030-0100 monitored 10/7 on 17870 15275 1735; 15180 and 15405 unheard; also on unlisted 9880, better than 11735 (Ralf Munster, GA) You mean 9800, or did they change? The two missing ones are from FE to WNAm (gh) R. Station Peace & Progress hrd on 17880 1330-1400, 28/6 SINPO 25343 (Dean Rekich) Another guise of R. Moscow not beamed to Nam (gh) R. Moscow regional EG services: 1400-1430 11770 Omsk (really Alma Ata), 15220 Dushanbe, 15435 Frunze, 11820 Frunze. 1500-1530 11820 Frunze, 12050 Frunze (Alma Ata), 15395 Tashkent, 15220 Dushanbe, 15265 Kenga, 15425 Kenga, 15435 Frunze, 15470 (Irkutsk), 17765 Dushanbe. Those two xmsns were to S&SEAs; Af: 1700-1800 11950 Khar'kov, 12050 Tbilisi, 15505 Serpukhov, 17735 Yerevan, 17775 Armavir. 2000-2100 11630 Moscow, 12000 Tula, 12055 Armavir, 15505 Serpukhov, 15520 Kiev. GB&I 2000-2100 7390 Moscow (Lvov), 7440 Moscow (Kalinin), 9490 Moscow (Nikolayev).

9685 Moscow (Kalinin), 15535 Frunze (Alma Ata) (UHN July) GB&I service 2100-2200 also on 7.25 and 11.82; for 580, 11.82 and 9.49 replaced by 9.55 and 5.98 (Gordon Darling, WDXC) I thought it was at 2000-2100 during summer time? See previous item (gh)

ZAMBIA R. Zambia's ES on Sundays 0550-0715 was on 11850 for a while but returned to 11880, with extremely poor audio and hum. The second Sun xmsn *1050-1100 with lengthy IDs in a number of languages, EG pgm summary and 1100 news; the 1550-2100v xmsn on 9578 is daily (QTH Africa 10/6 and 30/6) 1555-2105 on 9575v (Richard Ginbey, RSA, RN DXJB 10/7)

MISCELANEA RADIAL AFGHANISTAN R. Afghanistan DS Pgm I 0125-1930 is on 7200, 6230 (from 0330), 4775 (to 0330), 4740, 4450, 3965 +HW; and via USSR on 19637.25-USB 17720 15255. Second pgm on Kabul-Yakutut 4775 kHz, 100 kW: 1100-1130 Nuristani, 1130-1230 Turkmen, 1230-1330 Uzbek, 1330-1530 Urdu (ES), 1530-1600 EG(ES) and 1600-1625 Baluchi (WBI 3/7) I thought 19637½ was supposed to be from Afgh to USSR (gh)

ALBANIA Tiranë hrd on 18600 again, 0135 in SP, 3 x 6200 (Richard Stoller, NY, 29/6) An odd thing about this stn is that the highest fq intentionally used is 16230 (for the Std. Chinese service at 0500-0600, 1100-1200; each time //equally odd 14320 and 10510, per WBI 26/6 (gh))

ANGOLA Emissor Regional do Cuando Cubango sked on 4787 at 0600-1300 & 1700-2300 in PT & vernaculars; Emissor Regional de Benguela closes Sats at 2400* on 5042 6152 (Ginbey, RNDXJB 10/7)

ANTARCTICA AFAN now hrd in mornings, 27/6 2100 pop songs, infrequent EG anmts; on 6012 (Bob Padula, ADXN) This just to remind up-over people that AFAN is still there; reception usually picks up in August, tho in the 1100-1200 area; or a bit earlier (gh)

AUSTRALIA Since Monday 16/6, R. Australia's Darwin xmtr has been used daily (exc. 22/6) on a temporary basis replacing Carnarvon 15205 at 2325-0125 in Thai & FR, and on 17870 0125-0755 in EG. The 301° log periodic antenna was used with diesel generator power. Carnarvon was still used on all other sked fqs but by now will have resumed normal services (R. Australia Japanese DX Time 13/7; from Robert Jones) It's believed this was due to a power shortage in the town of Carnarvon (Robert Jones, July ADXN)

BELGIUM As from 1/7, BRT is using compression between mike and xmtr, to improve audibility of voices (Frans Vossen, BRT DX Corner 30/6) I understand just part of the time, for comparison tests (gh)

BOLIVIA 3380 R. Cumbre now regular, following several weeks' absence; daily *1030 apparently the bad QRM before then; weekday 0400* believed as still on at 0315 but gone by 0405. 4720v R. Abaroa, varying wildly 4712-4725; also noted local Fri nite to 0400* (ex-0330*)--seemingly a new pgm. *1100 confirmed. 4797 R. Nueva America, *1000 weekdays, *1030 Sundays. 4818v, R. Nac. La Paz, obs 0840 in Aymara when the Brazilian came on late one morning; *0800 believed 4866 R. Florida (Samapata) *2000 (Sun *1900), s/off seems 0300 Mon-Fri, 0400 Sat, 0330 Sun--local days; but needs further checking; beware the Colombian on 4865! 5582 R. San José, 1115-1715 and 2200-0230 (Sun 1115-1700); however morning broadcast often extended. 5995 R. Loyola, seemingly inactive (or irregular), possibly only temporarily. 6185 R. Batallón Colorados, hrd from around 1215 to past 1500; severe QRM (Tony Jones, Asunción, Paraguay, 20/6) BOTSWANA LN-14

BRAZIL A letter from the G.M. of Rádio Clube do Pará, dated 12/6 says that as of that day they were changing their fq to 4885; sked 0500-2430 local (Kevin Mikell, Park Ridge IL, 13/7) That would be ex-4855, and if GMT-3, sked in GMT 0800-0330 (gh) Details received from R. Record give SW sked at 1000-2200 on all fqs, and an outlet on 15135, ZYF-953, is listed in addition to others in WRTH 80 (WHR DX World 6/7) Also missing from WRTH 80 is R. MEC, heard daily at 0900-1300 on 17875 (Richard Ginbey, RSA, RN DXJB 10/7)

BURMA On 5/6 only, a Burmese stn could be hrd on 4881 around 1300 with poor condx; at 1330, Burmese nx //5986 and 4726 (Takumi Yamazaki, Akita, Japan, ICDCX 13/6)

CAMEROON Rif. Nat. du Cameroun 'Int'l Svc', on Yaoundé 9745 in fact relays Nat'l Svc in EG and FR almost all the time of its 0430-2210v sked; cf LN-1; short EG nx summary every hour on the hour followed by FR nx (Miki Včelař & Gordon Natrass, RSA, QTH Africa 20/6) The extension is valid for 4850 too, noted often well past 2300 with DS in EG/FR/verns, always //9745. No xmsn hrd on 4973 yet (QTH Africa 30/6)

CANADA Noticed 5/7 that BBC via Sackville 9510 s/off with anmt at 1315 (Doug Jaffe, Montpelier VT) Maybe because of special sports coverage that'd've been in progress at 1330? (gh)

CENTRAL AFRICAN REPUBLIC Bangui has been on 5036 every day since 23/5 (Rikard Johansson, aboard the supertanker Okeanos, as of 7/6 (DSWCI))

CHAD N'djamena, silent since fighting erupted in March, again obs operating for a short time in the past week on 4904 (QTH Africa, 30/6)

CHINA (Cf July LN-3) BPM QSLed with sked 0300-0600 & 1600-2200 on 10000 & 15000; address is Shanxi Astronomical Observatory, Academia Sinica, P.O. Box 18, Lintong-near-Xian (Magrone, Italy, SCDX 15/7) Not sure of spellings as copied off air (gh) Since the last sked for the PLA Fujian Front stn was published at yearbegin, this stn broadcasting to the Offshore Islands & Taiwan has been reorganised: it no longer relays pgms from R. Peking's Taiwan svc and overall output has been reduced. F.P. Net One is now on the air 112 h per week ex-133; Net Two down from 119 to 102. Both nets use Std. Chinese & Amoy. Net One, 2100-0500 & 1000-1800: 9540 0146-0500. 7850 0000-0500. 6765 2231-0500. 5900 0000-0500. 5265 & 5240 2100-0500. 4330 2100-2359. 4045 2100-0145.3000 2100-2359. 2490 2100-2230. Also at 1000-1800 on 7850,

6765 5900 5265 5240 4045. Net Two: 0330-1730(Wed 1000-1730): 9505 0330-0959. 7280 0330-1730. 7025 0330-1444. 6400 0330-1730. 6000 0330-1344. 5770 0330-1114. 5170 0330-1730. 4840 0330-1730. 4380 0330-1730. 4130 1115-1730. 3900 1445-1730. 3400 1000-1730. 2600 1345-1730. CPBS Peking Taiwan svcs in Std Chinese, Amoy, Hakka: 2000-0610(Sun 0700), 0830-1900: 15580 2314-0610 & 0830-1104. 15710 2200-0610 & 0830-1414. 11100 2000-0610 & 0830-1900. 9170 2000-0610 & 0830-1900. 6790 2000-2313 & 1105-1900. 5125 2000-2200 & 1415-1900. 3360 2000-0130 & 1000-1900. The xmsns ending at 0610 are extended to 0700 on Suns. + MW

R. Peking broadcasts in Russian; bracketed figures indicate the number of broadcasts during that period; these may be a few seconds apart and contain identical pgms; some SW channels vary up to 10 kHz to avoid interference. All are 55 min long. 0000 (1) 1521. 0100 (2) 1521; 11675. 0200-0255 (2) 1521; 11675. 0300 (4) (Reversed tape) 17532 15480 12450 11630 8260; 15600 15435 15300; 15235 15160; 15355. 0400 (2) 15600 15435 15300 15235 15160; 15355. 0900 (1) (reversed tape) 8260 5220. 1000 (4) 1521; 9725 7140; 15280 11700 11650; 9485 6565 5150. 1100 (3) 1521; 9725 7140; 15280 11650. 1200 (1) 1521. 1300-1355 (4) 1521; 9725 7140; 11650 6565 5145; 11675. 1400 (1) 1521. 1500-1555 (5) 1521; 621; 11600 11040 11000 7820 7040 5145; 9725 7140; 9820 9390. 1600 (6) 1458; 621; 11040 7820 7035 1521; 11720 11695 11445 9820 9540; 9725 7140; 11650 9640. 1700 (5) 1458; 621; 11945 11650 11600 11040 11000 9960 9630 7820 7035 1521; 11720 11695 11440 9820 9520; 9725 7140. 1800 (4) 11945 11685 11600 11040 11000 9550 7820 7025 1521; 9725 7140; 11650 9900; 11725 11445 9530. 1830 (1) (reversed tape) not confirmed. 1900 (3) 1521; 11945 11650 9550 7035; 9725 7140. 2000 (3) 1521; 11945 9550; 9725 7140. 2100 (2) 1521; 9725 7140. 2130 (3) 11720 11695 9470 9380; 11645 11040 11000 7025; 9900 7380. 2200 (2) 1521; 9725 7140. 2230 (2) 9900 9880 9460; 11715 9520 9470. 2300 (2) 1521; 9725 7140. 2330 (1) 9520 9470. The xmtr on 1521 is in Urumqi (WBI 19/6) Different xmtr-site groups are separated by semicolons (gh)

Tibetan svc on new 5955.7 ex-usual 9490, dual 11787 5995 4035, from 20/5 (Shigenori Aoki, NDXC via ADXN July) Sichuan PBS, Chengdu, introduced a new sked 16/6; monitoring, and pgm previews show the Pgm I is on 3245 and 1116 at 2125-0800 & 0920-1500; in Std Chinese, and include Peking relays of news 2230-2300 & 1200-1230. Pgm II on 5900 & 1089 2225-0530 & 0900-1300; mainly in Tibetan with two pgms in Yi 0000-0030 & 1000-1030 (WBI 26/6)

COLOMBIA R. Neiva reactivated after quite some time, on 4855a, first hrd 0025 2/7 (Richard Stoller, NY) Taped close at 0500* 2/7 and there was QRM from extremely fast counting in Spanish; using another stn for cover and then to be unmixd?? (Max Greenwood, PA) Back on after long absence, 4855 at 1035 5/7, SIO 443 (Jack Jones, MS) Also noted around 1028 and 0100; QRM from a time signal on 4855 too (Derek Lowe, Jackson TN, 7/7)

CUBA R. Moscow WS in EG, good signal 20/6 1010 on 5045, sounded like off-air relay; very low grade link somewhere along line; also 21/6 *1000 after 0953 tone bursts; carrier very noisy and poor modulation quality; SIO 453 (Jack Jones, MS) Really good signals here at 1000; awful hum, a buzz even; any idea when sign off is? (Charles Kristan, PA, 3/7) 1102* Observed 1/7 with RMWS relay, but around 1020 they switched over to Voice of Cuba (the MW pgm in EG //600). Meanwhile, 9600, which began the hour with VOC, switched over to RMWS. As far as I could tell, 600 stayed with RMWS thruout the hour who was fading out. At 1100, 5045 resumed RMWS //9600 but went off at 1102. Tho Cuba is (barely) in the tropics, they have never (deliberately) used the 60mb since the revolution, and the pre-1959 private SW stations were mostly on higher out-of-band fqs. 5045 perhaps for better Florida & Carib coverage (gh)

CYPRUS CBC obs *2215-2245* on 9695 5/7 with radio theatre; presume in Greek; s/off w/out amnt (Doug Jaffe, VT) Reported some time ago to have expanded fr 15 to 30 min tho WRTH 80 still shows 15; also 2 other fqs, and is on Fri-Sat-Sun only; for UK Cypriots via BBC Zyyi (gh)

CHILE La Voz de Chile ES in Spanish not hrd in 2 months, nor in other langs (Roberto Levinstein, Spain, RN Portuguese DX 26/6) Something special must have been going on 1/6 in Chile, as R. Minería 9750 noted by Bob Padula on late 0550-0630+ with lively fiesta mx; and same date I noted R. Calama, 6100 at 0953 past 1000; usual s/on time is 1200 (Peter Bunn, ADXN) R. Agricultura, 9630 has resumed a *1000 sign-on; 0900 was used during southern summer (Bunn, RA)

ECUADOR Since the 26020 kHz xmtr operates 24h (with a 5-element quad), it's usually run at 60-70 watts so it won't overheat (Clayton Howard, HCJB DX Party Line 3/7) A special QSL is now available for correct reports on this fq only; it shows the xmtr and antenna (DXPL 7/7) 26020 is now directional, and scheduled as follows: 2200-0100 WNAE/Japan in JP PT GM EG. 0100-1100 SPac EG /which pgms 0600-0830 when there's more than one EG service? gh/. 1100-1900 Eu: 1100 SP, 1200 EG, 1600 PT, 1700 EG, 1800 CS, 1830 GM. 1900-2000 ENAm: 1900 EG, 2000 Nordics, 2030 FR, 2100 Nordics, 2130 EG. (Barry Hartley, NZ, SCDX 1/7) I've noticed HCJB has begun mentioning 26020 in fq amnts (gh). Cf July LN-4; R. Baha'i xmtr site is Lake Quicocha; rhombic antenna 64m square, total cost about \$1000 US. Consultant/engineer Dean Stephens says the site was carefully chosen with help of topo maps, and they 'negotiated with the govt for two years to get this particular site which is one of the finest SWBC sites in the world.' C.E. is Ralph Dexter /apparently a real name -gh/; production dir. is Michael Stokes; all per Apr 1980 issue of Baha'i News (Ralf Munster, GA, August REVIEW OF INTERNATIONAL BROADCASTING) See LN-9

EGYPT R. Cairo's ES on SW seldom makes fq changes and only these are different from WRTH 80, per WBI 3/7: 1630-1730 Afar to EAF 11975 ex-11845. 2030-2200 (ex-2230) FR to Waf on 15335. (this and several others are not confirmed by BBCMS such as 2300-0030 PT to SAm on 15360, which I recall running across and not bothering to log). And 0200-0300 AR to NAM on 9675 ex-11745 (gh)

- GERMANY WEST** Slight QRM to DW's 0120 EG xmsn on Antigua 6040 is caused by RBI, in SP to Lam until 0200, then PT. Early in June DW left 11795 at 2200-0150, guess due to Colombia 11792v QRM; replaced by 11765 Kigali, with lamentable results, but then it gave up 17795 apparently on account of Norway, leaving that fq for it and Australia, only to move back to 11795 with the same old problems with Colombia; for the 0200 xmsn this fq (beamed from Malta) becomes utterly useless since Egypt also uses it; wonder how it sounds on the West Coast. For those desiring longer DW pgms in EG, 21600 at 1715-1805 formerly was excellent but since J80 began this has been jammed for all but 1740-1800. At 0120-0220 for Asia, I find 7210 better than 15235, static and ham QRM permitting; as of 24/6 (Ralf Munster, Decatur GA) /more **GUAT LN-14**
- GUATEMALA** Official govt stn list, which may not be accurate, shows R. Cultural on 9505 as well as WRTH-80 listed fqs; and 2 other unlisted in WRTH SW stns: TGRZ, R. Miramundo, 6010; and TGQH, R. Santa Cruz, 4870; no powers or times given; maybe only on spl occasions (WMR DX World 20/7) La Voz de Guatemala, 6180, noted active in former silent period, 0500-1100, suggesting this fq now 24h (Peter Bunn, RA DX 22/6) Ammts in SP by Unión Radio say it's on 1330, 105.5, 5980 and 6090; calls respectively TGNU, TGNUB, TGNUA, TGNUC. 5980 obs since 12/6; 0130-0500 with musical and religious pgms (WBI 19/6) Well, I'm sure when I was hearing them the calls were TGMU-, and so listed (on 1330 only) in WRTH 80. Has anybody received any letters, QSLs or gifts from them as promised? (gh) I have not heard from them; must be busy in setting up the new station. Last letter of call may be flexible (Adrian Peterson, AWR Asia)
- HAITI** R. Caralbes, listed on 1150, mentions a SW outlet on 6015, 4VEB, at 0945-0400; maybe inactive, future plan or just wishful thinking (WMR DX World 20/7)
- HUNGARY** R. Budapest has a relatively small number of fqs, but heavily used thruout the 24h. With info from WBI 26/6, I'm rearranging them this time to show fq usage without worrying about languages (which in some cases vary by day of week). 21525 0900-1000. 21505 2130-0130 (Mon 0200). 17785 0900-1000, 1020-1040(not Sat; Sun -1200), 1200-1220 M-F, 1330-1400 M-F, 2100-2130. 17710 2130-0300(Mon 0400; Wed & Sat 0315; Tu & Fri 0320). 15220 1330-1400 M-F, 2100-0300(same variations as 17710 above). 15160 0600-2100. 11910 & 9835 0600-0300 (same variations after 0300). 9585 0600-0900, 1000-1800, 1800-1830 Tue & Thu-(other days 9655), 1830-0300 (-variations). 7200 1415-1430 Mon-Fri, 1430-1530 Mon-Sat, 1530-1600 daily, 2030-2100. 7165 1600-2030. 7155 0600-0900, 1000-1330, 1330-1400 Sat/Sun, 1400-1430 Sat, 1400-1530 Sun. 6025 0600-0900, 1000-1330, 1330-1400 Sat/Sun, 1400-2230. 6000 0030-0300 (+ vars). Presumably some of these will shift to an hour later 28/9 as programs contained within them do with the return of standard time to Hungary (gh)
- ICELAND** (Cf July LN-5) Reykjavik noted from at least 1830 to 2000 on 15420 and 12175, best during the last half hour. 12175 was USB at 1910 but in AM at 1940 (Mike Barraclough, WDXC)
- INDONESIA** RRI Dili now again on 3305; first noted 8/6, ex-3120; from end of April to mid-May Dili on 3305, then QSY to 3120, now again 3305 to 1520* // 2456 (Takuya Nakayama, IDXR 14/6) 23/6 on 3305 at 1030 over PNG, but at 1515* same night they were on 3120! (Mike Willis & Bill Whitacre, Yarram, Vic., ADXN)
- IRAQ** R. Baghdad DS in AR now on 3952 ex-3960 from fade in 1400 to 2000*; recently this svc hrd on MW only (WBI 26/6) Is an 8-kHz change really significant, or even deliberate? (gh) Changes to Urdu 1300-1400: 11935 and 11712; and Persian 1600-1900 11712 9570 3242 1197 (WBI 3/7)
- ISRAEL** IBA has apparently changed all xmsns on 15582½ and 15585 to 15584, first obs 18/6 0453 (Ralf Munster, GA) I am no longer associated with Israel Radio; however, the P.O. Box 204, Cheltenham PA address is still active and being handled by Alan Hausner (Larry Magne, PA) IBA's progress in the last several years, especially in frequency management and its prime time service to NAM, are largely the work of Larry Magne, to whom IBA owes a much greater debt than they apparently realize. Congrats to Larry on being named North American DXer of the Year, at ANARCON 1980! (gh)
- ITALY** RAI hrd on 14550, 2 x 7275, 1922 -1955 26/5; weak (Joachim Kornek, GFR, July ADXN)
- KENYA** Letter from VOK says they have no SW xmsns from Mombasa; 4934 comes from Langata near Nairobi; sometimes replaced by 4885 also from Langata; so you cannot hear Mombasa except on MW (Vesa Komulainen, Finland, June WDXC Contact) Contrary to reports elsewhere, QTH of particular VOK outlets is not easy to determine: Mombasa was using either 4885 or 4934, and in daytime either 7240 or 7210 during mid-June. On the 16th, they used 4885 morning and 4934 evening. Nairobi 4915 went missing for a few days, then returned, while the Central Svc drifted from 4950 to 4956 on 16/6; so take care (Rikard Johansson, WMR DX World 13/7) General Service of VOK Nairobi noted sometimes on 4800 instead of 4804; this may explain numerous incorrect reports of Lesotho using 4800 again; both Kenya and Lesotho are in EG & vernaculars and Kenya xmsns are known to have run past official s/off of 2010 thus adding to confusion. If no ID is hrd, a time check should eliminate Lesotho as it is GMT+2 while Kenya is GMT+3. Lesotho has not been hrd on 4800 for a very long time now and is using MW only (QTH Africa 30/6)
- KOREA NORTH** has registered with IFRB (per Circular 1422) a great many in-band fqs, few or none of which have actually been heard. If you want the full sked showing time, target, power (20-50-100-200-300 kW), beam and gain, send gh an SASE with two additional 15c stamps for copying. The fqs are: 5955 5960 5980 6195 7120 7200 7205 7210 7290 9505 9520 9550 9570 9600 9640 9650 9690 9700 9760 9765 9770 11705 11710 11780 11785 11790 11800 11820 11850 11860 11870 11900 11905 11970 15105 15130 15205 15300 15400 17780 17800 17850 17895 (via Dan Kosko, OH) Pyongyang on new 11895 in KR 2044-2100* 27/6, QRM RFE (Bob Padula, ADXN)

KOREA SOUTH KBS Dae-gu seems to alternate between 5975 and 5730, sked 2000-0805 // 2510 (Tohru Yamashita, Japan, R. Australia DX 6/7) With exception of EG (see July LN-1), here is R. Korea's revised sked as of 16/6: 0600-0830 7275 JP. 0700-0730 KR 9870 & 11810 Am & Lam. 0700-0730 15570 FR Eu. 0830-0900 SP 9870 11810 Am & Lam; 15570 Eu. 0830-0900 RS 6165 7275. 0900-0930 KR Eu 15570. 0900-0930 CH 6165 7275. 0930-1000 SP: 6165 7275; 9570 Sam, 11725 Sam. 1000-1030 KR 6135 6165 7275. 1100-1130 AR 15570 ME&NAF, 9870 ME/As/India/MAF. 1100-1130 JP Sam 9570 & 11725. 1100-1330 JP 6135 6165 7275. 1130-1200 KR Sam 9570 11725. 1130-1400 KR 9870 15570 (targets as above). 1230-1300 CH SEAE 7550 11830. 1330-1400 CH 6135 6165 7275. 1400-1430 IN 6165 7275 7550 11830; FR 9870 15570. 1430-1500 KR 7550 11830. 1430-1530 CH 6165 7275 9870. 1530-1600 KR Am & Lam 9720 11830. 1600-1830 JP 7275. 1700-1730 SP & 1730-1800 JP Am & Lam 11830 9720. 1700-1930 KR ME & NAF 7550 9870. 1830-1900 KR Eu 6480 15570. 1830-1900 RS 7275. 1930-2000 AR ME & NAF 9870 7550. 2000-2030 FR: Eu 6480 15570; ME&NAF 9870 7550. 2030-2100 SP: Eu 6480 15570; ME&NAF 9870. 2100-2130 RS 6480 15375 15570. 2100-2330 JP 7275. 2230-2300 KR 9640 15375. 2300-2330 CH & 2330-2400 IN same. 0030-0100 KR 15375 Lam, 15570. 0100-0330 JP 9640. 0200-0230 SP 15375 Lam, 15570. 0300-0330 KR & 0430-0500 FR 15570. If no target given, is non-directional or obvious from other xmsns. (via Rowland F. Archer, Jr. Hillsborough NC)

LAOS (Cf July LN-5) Same old story; 7130 listed by BECMS as Xieng Khuang, coincides with Savannakhet's Military Region 3 stn; Old Pakse channel 6600 coincides with Vientiane's Army HQ stn of more than 5 years ago. For some reason, BECMS does not list these regionals, which are observed here: Savannakhet 7382 at 1400*; Houa Phan 4657 (and possibly 6175a) (Isao Ugu-sa, DX Front Line 26/6) LEBANON; more LIBERIA, LN-14 LESOTHO see KENYA, 5

LIBERIA Cf June LN-6. ELWA noted for several days in early June on 4765 in the mornings, but 4770 evenings, and this seems to be intentional (Rikard Johansson, m/m, WMR DX 6/7) LIBYA:

MALTA Per press reports, the Maltese govt has stopped relays of Libyan xmsns due to deteriorating relations between the two countries; the freed xmtrs might show up with some new and interesting xmsns (WMR DX 27/7) 1800-1855 5960 & 1557 AR/FR/EG now 'R. Mediterranean Malta(WB)

MALI (oops) /Bamako/ not on 4835 7100 7285; 29/5 and 30/5 observed on 4783 and 5995 to 0759; 1200-1759 on 7110 7271 9635 11960; 1800+ on 4783 5995 (Rikard Johansson, m/m, DSWCI July)

MONACO R. Monte Carlo to ME & NAF in FR at 1745-1800 on 6035 and 7135 (Christian Chibaudou, France, SCDX 17/6) Not listed in WRTH 80; is this just another TWR xmsn, or a real Monégasque one?? (gh)

MOZAMBIQUE Obg in mid-June showed Beira on 3370 varying to 3368 morn & eve; and with a different pgm on 3280; daytime to 1730 Beira on 6025v6027. Nampula on both 7052 and 4944 simultaneously daytimes. Quelimane eves on 3195; 4894 from 1550. (Rikard Johansson, m/m, via WMR DX World 20/7) Be very careful as all these seem very unstable; never rely on list-logging, even from the most recent bulletins (Andy Sennitt, WMR DX ed.) R. Maputo 9600 (variously on 9600 9602 9605 9608) has been dropped, formerly carrying Interprovincial pgm in PT & VN days, now on 6982 only and no fq above 7 MHz traced. Natl pgm in PT only is still on 9618 11814 15300v, but 7240 appears dropped (QTH Africa 20/6) 9618 off the air now for Nat'l 1 pgm in PT, but 11814 and 15310v hrd, and 6980v for IP pgm; GMT morns, 4870 to 0700* with strong 2nd harmonic on 9740; Beira still on 3280 3370 6025 6090 9635 at various times. (QTH Africa 30/6)

NAMIBIA Address for SWABC is Box 321, Windhoek 9100 (Richard Ginbey, RSA, RN DX JB 10/7) Cf July LN-6 & 13 (gh) Start maybe delayed to Aug or Sept (Charles Hobson, RSA, SCDX 22/7)

NEPAL R. Nepal hrd on 3425 and 9590 0020-0350 & 1150-1720; at 0720-1020 9590 only (WBI 26/6)

NETHERLANDS Because of budget considerations, as from 11/80 we will issue 2 QSLs annually, on 1/11 and 1/5 (Frits Creveling, R. Nederland DX Jukebox 19/6, and via CANDX)

NIGER On 31/5, Niamey obs before 1200 on 7155 and 9705 (not 9575); around 1530 on 6060 7155 and 9705 (not 9575) (Rikard Johansson, m/m, DSWCI SW News July)

PAKISTAN A little-known fact (I can say this because I didn't know it in detail, hi) is that the name of this country is an acronym conceived in 1933 (long before the country was) from Punjab + Afghan border states + Kashmir + Iran states + Sindh + Baluchistan, according to the BBC 'My Word' pgm carried on NPR 21/7, i.e. the areas making up the country. Thus it would seem that 'East Pakistan' was a contradiction all along, and I'm surprised Indian usage does not omit the K! (gh)

PAPUA NEW GUINEA Port Moresby 9575 is a fq activated only for special occasions, e.g. 15/6 at 0355 for the Port Moresby Show; very good signals (Charles Littlefield, Qsid, ADXN) And 16/6 for the Queen's Birthday holiday, with description of a championship hockey match 0500-0630. NBC will carry reports from the S. Pacific Festival of Arts 30/6-12/7 on presumably the regular fqs at 0630-0800 & 1105-1130 daily (Robert Jones, NSW, ADXN July)

PARAGUAY Bad news for those wishing to hear R. Nacional: 6025 is on its last legs and is only barely audible a few miles from xmtr, while there is little hope of the 9 MHz xmtr being put into opn in near future--it has been plagued by tech problems right from the very start, and is not a very good ad for US technology! The only ZP stns currently on SW are those of La Voz del Amambay, 5995, and Em. Paraguay, 6015 (Tony Jones, Paraguay, 20/6)

PERU R. Huayllay, 6140, obs weekdays *1045v1050, then pgm of local huaynos; R. Melodia, 5995 has nice pgm of Andean mx 'Melodia en los Andes' 0900-1000 (Suns -1100) (Tony Jones, Paraguay) R. Esmeralda, 5300 is OBX50, in Huanta, Ayacucho (Roger Thörnberg, Sweden, WMR DX World 27/7)

PHILIPPINES (Cf July LN-6) The 3115 stn turned out to be a harmonic of DWGO-1557, Subic Broadcasting Co. NDXC apologizes for the erroneous info (ADXXN July) It is of even greater interest because the power of harmonics is usually very low, so if you do hear something on 3115, stick around because you might have the best catch of your DXing career! (WMR DX World 27/7) Philippines News Agency hrd on 11450 0235 16/5, SIO 343 with EG nx, ID, 'special broadcast' (Ken Chorpennig, Tokyo, Japan, July:ASWLC) It's unusual to hear a mx pgm from AFRTS, but before and after 0830, solid mx, no anmts can be heard via Philippines 21670 (Adrian Peterson, India) It's a time reserved for special programming, but often there isn't any (gh)

POLAND Polish Pathfinders' Stn has new vacation sked from 10/6. on 6195 and 8100 Tue-Fri 1000-1600; Sun & holidays + Sats 21/6, 5/7, 23/8, 0800-1600. Mainly in Polish but with EG & Swedish playing pop mx (Slawomir Mierzejewski, Poland, SCDX 24/6) Hrd tentatively on 11800 at 1535, SLBC QRM, so 8100 must be wrong (Martien Groot, Holland, SCDX 15/7) Right, it's on 11800, not 8100, and on 6165 /sic/ (someone in Gdansk, Poland, SCDX 22/7)

PORTUGAL I've noticed R Portugal has a new IS, hrd just before 0030 on 15125 for instance (gh) RDP operates a so-called 'neutral service' on SW, never listed on the sked--intended to occupy certain freqs which might be needed on spl occasions. Currently it's at 1430-1800 on 15280 17790 and 21700; weekdays, mx and IDs; weekends // PT svc for expatriates also to Eu. Relay to Azores of Lisbon's Pgm I is now at 0630-1830 on 11875 suppressed carrier DSB and 11925; 1830-2400 6185 SCDSB and 6155 (WMR DX World 20/7 from Carlos Relvas de Assunção)

SOLOMON ISLANDS SIBC 9545 hrd 2/7 0734-1130*, excellent, probably best ever here and no QRM. YL w/natl nx 0745, repeated at 1100; could not hear 5020, probably condx. 3/7, 9545 was strong around 0700 but recehck at 1115 showed weak VOA, 1129 Moscow IS, no sign of SIBC. Maybe 9545 replaced 5020 on 2/7 only; was better than PNG 9520. 7/7 at 0703 only DW on 9545 tho PNG 9520 was good, perhaps SIBC left at 0700; most irregular (Syd Osterman, Gw) more, LN-14

SWAZILAND TWR has bought xmtrs once used by pirates Swinging Radio England and Radio Britain-Hallmark of Quality aboard the 480-ton ship Laissez Faire off Frinton-on-Sea, England. They have been for the last few years used for gospel broadcasts from Manzini. The pirate has become a preacher! (TWR via QTH Africa 20/6)

SWITZERLAND SRI 1815-2245 on 17850 ex-17760, EG, GM, FR, IT, PT, SP, EP (WBI 3/7)

TAIWAN VOFC ES at 0900-1500 irr. since 1/5 on 12085 ex-17890 (Shigenori Aoki, NDXC, via SCDX 24/6) in Mandarin & Cantonese to SEAS (SCDX Ed.) VOFC non-EG services to Nam: MD 0000-0100 on BEG44-11745 BED69-11825 BED49-15345; CT 0200-0300 on 11825 15345. MD 0400-0500 & CT 0500-0600 on BEG42-9600. CT 1200-1300 on BED99-15225; MD 1200-1300 on 11745; CT 1300-1400 & MD 1400-1500 on 11745 15225. MD 2040-2140 on BED73-9685 BED69-11825 BEG49-15270. In SP to Lam: 2300-2350 on BEG43-9610 BED66-9765 BEG44-11745 BED45-11860 BED60-15125 BED39-17720 (VOFC 6/80 sked) One of few IBcers left using callsigns, one per freq, tho omitted in WRTH (gh)

UGANDA R. Uganda ES hrd daily 1715-1855* in EG on 15250 (Faccioli, Uruguay, SCDX 8/7) R. Uganda ES has been silent for some time (Richard Ginbey, RSA, RN DXJB 10/7) 15325 zilch (gh)

UNITED ARAB EMIRATES Dubai R&CTV hrd testing on two freqs now in parallel, 21700 & 17750, 0515 (Rolf Gunnar, CO, early July) 2nd xmtr active now, per anmts on 9640 and 21700 (Noel Green, BBC WRC 9/7) Hrd on 17775 13/6 strong but off by 0420; also 17/6 0801 // 21700 (Joachim Kornek, W. Germany, ADXXN) At 0345 on 11700, AR past 0410; audio distorted (Steven Reinstein, FL, 28/6) Really good signs on 21695 around 0700, AR DS relay (Chuck Kristan, PA, 3/7) I'm tired of waiting for proper xmsns to start; let's get on with it, boys! (Andy Sennitt, DSWCI) LN-14

UNITED NATIONS Late change to J80 sked is that 0500-0815 pgms to Af/Eu/ME has been retimed to 0630-0815 (Sats). Greenville 11735 & 15125 thruout; G'ville 10454 USA, Tangier 15195 17815 at 0715-0745; Monrovia 15235 17869 /sic/ 0745-0815; pgms in EG, FR, PT, GB, HK, TK, SH, SM (Robert Jones, NSW, July ADXXN)

U S A Some VOA 'service pgms' not in the regular sked: German feeds to RIAS-Berlin; from Greenville: Mon-Sat 0145-0200 15752-LSB, 10454-LSB, 10235-USB. Mon-Fri 1315-1330 15415, 20060-LSB, 19721.5-USB; Mon-Fri 1545-1600 21695 15410 15752-USB. The Kuwait correspondent at the UN is on Sats 0230-0245 on Greenville 9565 5995 10235-LSB 6873-LSB; Tangier 15395 9770. An Arabic feed to Rabat is Tue & Fri 1445-1500 on Greenville 19505-USB 18275-LSB 15410 26040 (gh) WYFR 880 non-EG: AR 1700-1800 21525. GM 1615-1700 21465 15440 21525; 1905-2000 21510 15440. SP 2105-2300 15130 15440. FR 1800-1830 21510 15440 21525. IT 1830-1900 21510 15440 21525. PT 1900-2000 21525. RS 1610-1700 21615 17845, 2010-2100 21510 15440. To Ams: GM 2310-2400 15130 11855. SP Sun 1305-1600 17730 15440 17875; daily 2300-0100 15215 17805, 0100-0200 15215 17805 11855 15130, 0200-0500 15215 17805 11855 11740, 0500-0600 11855. PT 0000-0100 11855 15130 (WYFR) VOA introduced an additional half hour daily pgm in Turkish 1/6: 0330-0400 on 15310 15195 11805 7130 6080 6005 1260 (WBI 19/6)

U S S R A current & continuing study by Douglas Johnson, WA, and Olle Alm, Sweden, of 'Operational Navigation Charts' issued by the National Ocean Survey, Riverdale MD, and showing tower heights of 200 ft or over, has indicated some changes from the previously believed sites of R. Moscow xmtrs. The large 18-xmtr complex, previously believed to be near Zhigulevsk, has been determined to be near Kuybyshev. The 10-xmtr 'Armavir' site is near Krasnodar; the 4-xmtr 'Orsha' site is at Moghilev. No towers are shown at Frunze, frequently IFRB-listed site. Ata-Ata, Dushanbe, and Tashkent sites are confirmed. Nikolayev site in Ukraine confirmed; this has 5 x 500 kW xmtrs, but are listed at other Ukraine sites in IFRB sked (UHN June 1980) The spl R. Moscow nx bulletin in RS 1530-1600 Mon & Thu for western Arctic & Antarctica, now

obs on 9590 and 9490 (WBI 26/6) On 9615 and 9870; and Moscow to E. Arctic in RS at 1000-1030 on 15460 and 15310; 11825-SSB (R. Sofia DX 12/7) WBI probably upper-to-date (gh) R. Lenin-grad's only ES, is Fri 2200-2300 in RS for Soviet fisherman, on 9560 6200 1494; R. Minsk in Belorussian to Eu, 1800-1830 11860 11830 11820 7420; 2130-2200 9785 7340 6020, via R. Moscow facilities. R. Yerevan in AM to Lam 2200-2300 on 15515 (WBI 19/6) Hrd. feature pgm about Latvia and ID sounding like R. Riga at 2325-2330 on 11735 20/6 (John T. Arthur, Potter Valley CA) Well, this is regular time and fq for R. Vilnius in nearby Lithuania; could you have mistaken it, is Vilnius expanding Baltic coverage, or is R. Riga getting into the act? (gh) 21/6 at 1500 I hrd R. Moscow WS on 4860, fair with some fading from my west coast position (C. Patrick Hobbs, La Verne CA) Propagation from Moscow site unlikely then; where is it? (gh) RMWS harmonics at 0120 on 19400 = 2 x 9700 and 19330 = 2 x 9665; also in SP 19580 = 2 x 9790 (Richard Stoller, NY, 29/6)

VANUATU VOA news reported 30/6 that R. Vanuatu had been bombed, but continued broadcasting (gh) 7260 hrd fairly regularly at 0830 with locally produced news bulletin, very low key, giving details of local troubles (Tony Jones, Paraguay, 20/6) 7260 hrd 7/7 0708-0821; some complete EG sentences but mostly Pidgin to 0800 when Pidgin-French, mx; could not hear 3945 at 0721 when it was tentatively mentioned on 7260 (Syd Osterman, Ont.)

VENEZUELA R. Frontera, 4760.5a, usually off, but fair sig lately since 24/6 from 0100 or so; gives SW, MW and FM fqs, 'en San Antonio' (Richard Stoller, NY) 24/6 0140-0204, ID 0151, 0200 then mx; surprised to hear this one (Don Moore, Bellefonte PA) 26/6 at 1003 just after s/on (Jack Jones, MS) R. Universo, 4880 back on the last couple of days with usual strong signal; do believe they were gone for a while (Doug Jaffe, VT, 9/7) R. Nacional Venezuela, 5020, 20 & 23/6 0310-0400*, closing with ID, anthem, fair ('SS' in PLAY-DX, Italy, 7/7) Cf July LN-7

VIETNAM A recent survey of VOV domestic regionals reveals this fq usage: Bac Thai 6895 (varying to 7009). Cao Bang 6650. Ha Tuyen 4820. Hoang Lien Son 5630 (vary to 5621). Nghe Tinh 4930. Nghia Binh 745. Phu Khanh 5139. Quang Nam-Da Nang 600. Son La 6330 4770. Thanh Hoa 4884. Vinh Phu 4243 (WBI 19/6) Lai Chau obs since 31/5 on 4691 *1140-1330* (Shigeoyuki Komai, Kyoto, DXFL) Hoang Lien Son now on 5609 ex-5628 and sked changed; s/off varies between 1315 and 1400 depending on day of week. Cao Bang on 6610 ex-6650 since mid-June, 18/6 (Isao Ugusa, DX Front Line) Gia Lai-Kon Tum on 4733 ex-4729 1140-1215* since 16/5 but no signal hrd since late May (Hiroyuki Komatsubara & Takumi Yamazaki, ICDCX) Bac Thai hrd at times on 7008v, *1225-1400* but usually 6900v (6850-6905) (Yamazaki, ibid.) Cao Bang on 6650 ex-6630 at *1200-1330* since 25/5 (Komatsubara & Yamazaki & Weerakoon, Sri Lanka, ibid.) Lai Chau 5921 (or 5923) untraceable since 18/5, but on 24/5 only on 5956 at +1300-1330* (Yamazaki). Lai Chau 4691 *1135v-1330* since 29/5 (Tomoaki Hirata, Yamazaki, Weerakoon, ibid.) Hoang Lien Son 5630 ex-5628 *1200-1330* (Sun/Thu 1400*), first noted 1/6 (Komatsubara & Yamazaki) Phu Khanh still on 5140 at +1055-1500+ with local pgms and Hanoi relays, all in VT (ICDCX 13/6) Bac Thai on 6885 ex-6895, fair around 1300 (Peter Bunn, Melbourne, RA DX 29/6)

ZAIRE Noted harmonic from Africa /probably during April/May F2 peak/ from +0600-0930+ on 35718 in FR; must be 6 x 5953 from Zaire (Anthony Mann, Applecross WA, Australia, 15/7) The correct name of the education stn is R. Candip, addr. P.O. Box 373 in Bunia; the Swahili name in WRTH is only a subsidiary title or slogan. Revised sked is 0400-0730 daily exc. Suns.; 1500-1900 M/T/W; 1500-1830 Th/F; 1230-1730 Sat; 1230-1715 Sun. Has been reported in Europe on 5066 (John Campbell, UK, WMR DX World 13/7)

ZIMBABWE ZBC GS anc'd 23/6 that it would be renamed 'Radio One' as from 1/7 0330. ZBC is working out an arrangement for BBC aid in training personnel and replacing old equipment (WBI 26/6) On 25/6 ZBC broadcast the recommendations of the BBC report for the future of the ZBC. The prime requirement was that Zimbabwe's Nat'l Broadcasting Svc be independent of govt, party political, commercial and other pressures; ZBC should serve all Zimbabwean people, Shona and Ndebele, black and white, rural and urban. Obs 1/7 confirm 'Radio One' in use, at 0325 on 3396. The 0400 mx said the stn would now have 'people-orientated' pgms; R. Montrose and R. Mtswakazi have been abolished and amalgamated into Radio One & Two (WBI 3/7)

FUTURE PLANS

ANDORRA On 28/6, France-Inter reported that Andorra had decided to nationalize the two stns R. Andorra and Sud-Radio in 1981. SOFIRAD --the French company running Sud-Radio--has promised a vigorous campaign against nationalisation (WBI 3/7) The Andorran Valleys Council has announced that from 29/3/81, R. Andorra and Sud-Radio would be nationalised (COQC L'Onde, 15/7)

AUSTRIA From 1982 ORF will operate with a new turnable high gain antenna and another fixed antenna wall for America (mainbeam can be slewed) and in addition a new 250/300 kW xmtr. After this, we hope we can serve your area with a better signal (i.V.Dr.J.Berger, Sendernetzplanung, ORF, 18/6) Herr Dipl. Ing. Herbert A. Kuhnle, ORF's SW fq planner says ORF will probably never leave 9770 since there is no other fq available on 31m during that time and because the rhombic antenna cannot be used in any other band. And ORF is acquiring a new type of Telefunken antenna he calls a 'Drehstandantenna', i.e. turntable antenna, similar to a smaller one in Switzerland and a larger one of R. Vatican. ORF's will be suspended between two 80m high towers, 80m from each other, with the whole mounted on a platform that moves on railroad tracks. Whereas one of ORF's rhombics has a gain of 16-17 dB compared to isotropic, this will have a 21-23 dB gain. Mainly for financial reasons, ORF has decided against getting any 500 kW xmtr but is planning on a 250 or 300. The antenna wall under construction will have a main beam on CAM, backbeam to AS, usable on all fqs; all to be ready by 1982-early 83 (Munster)

- ✓ **BOLIVIA** R. San Rafael, la emisora católica de Cochabamba, advises us of an unlisted SW outlet on 5055, CP87, 1 kW at Iquique; also a new director, Sr. Leonel Camacho Torres. The SW outlet is not currently active, but it presumably might appear again (WMR DX World 29/6)
- ✓ **COSTA RICA** The Comptroller General has found no legal grounds for cancelling the license of controversial R. Noticias del Continente. It has been the target of bombings, vandalism and innumerable press attacks for its allegedly radical news interpretation and support of revolutionary movement thruout LAm. The latest attempt to close it, led by journalist Emilio Piedra, claimed that the concession was never published in the official govt bulletin and therefore was not valid. But the Comptroller's office ruled this week that the omission does not warrant the stn's closure (Tico Times via Peter A. Horton, MO, 28/6, who just visited C.R. and adds:) On the day I left it was proposed to reduce xmtr power by 49 kW to 1 kW to avoid any charge of supression of free expression, but preventing significant penetration of main target Argentina. 1 kW is the general power level of other C.R. SW stns.
- ✓ **DENMARK** Danish press reports the long-serving 50 kW SW xmtr at Herstedvester has now got the last remaining output valve from stock in the final stage, and they have been busy locating valves of the same type to keep the xmtr operational until the new SW site on the island of Mors is ready, by 1983 at the earliest. We hope they manage it (WMR DX World 6/7)
- ✓ **ECUADOR** HCJB's steerable antenna has been on the air for nearly a year into Europe on 25m at 100 kW and since 1/3 in 16m with 50 kW. It doesn't yet have the beam steering feature incorporated but we hope to start on that shortly when some of the engineers who've been busy on the 500 kW xmtr arrive here in Ecuador. The 500 kW xmtr is expected to arrive in Ecuador in about a week, and as soon as installed will begin experimental svc to Eu using steerable antenna, 25m on night path; beam is 20° wide; 16m in same direction 15° wide in our early afternoon. We may operate 500 kW xmtr to NAM at 175 kW experimentally at times, but will probably not announce just when. The svc to Eu may be operating some days and not others. It will be Sept or later before you can expect expl tests of 500 kW and more than a year before it'll operate in your direxion from steerable antennas (Don Hastings, HCJB engr, via Lamont M. Jensen, Salt Lake City UT, 22/6) On 28/6 three container trucks (and a flatbed bearing huge power transformers for it) arrived in Quito with the 500 kW xmtr (DX Party Line 7/7) I have suggested HCJB should further reduce the power on 26020 to 10 watts. C.E. John Stanley replied that they were seriously considering this, and the same had been requested from ANZ. The project has no budget and is being done by some of the engineers at a hobby project. "If we do plan a test at 10 watts, I will try to let everyone know; I think we will wait until fall when conditions are better" (Charley Hoffman, Mannheim PA)
- ✓ **FRANCE/GABON/GUJANA FRENCH** France-Inter reported that on 23/6 the P.M. stressed the importance he attached to the relay of RFI broadcasts to the world. Two xmtrs--one in Guyana /sic/ and one in Gabon--were to go into service shortly to improve RFI audibility in LAm and Af (WBI 26/6) In a letter received a few days ago from RFI, they say they will resume broadcasts in PT, FR, SP for Ams. These were dropped in 1975, according to them because of poor reception, which seems a bit absurd. Their only SP broadcast now, for Eu at 2100-2200 on 6040, puts in a good enough signal into Buenos Aires (Gastón Federico Rosenstrauch, Argentina,
- ✓ **GUATEMALA** AWR, Union Radio currently uses 5980 or 6090 nominal with 10 kW, 0130-0500; hold^{4/6} ever, they are seeking a fq change in the 49mb due to QRM. Also plan to raise power on SW and MW, and to start using 19, 25 and 31m, later this year (WMR DX World 29/6)
- ✓ **HUNGARY** R. Budapest plans on getting 2 more SW xmtrs and a new rotatable log periodic antenna (R. Budapest 13/7 via gh)
- ✓ **INDONESIA** On 24/6 RRI quoted Info Minister as saying the IS would be improved to enable Indo embassies abroad to follow developments in Indo rapidly thru RRI nx. For this purpose, the govt recently accepted a loan from France to buy two xmtrs to boost RRI's IS (WBI 26/6)
- ✓ **MALI** RNM reported 10/6 that after talks with W. German officials, the Foreign Affairs minister had arranged for R. Mali to be equipped with three xmtrs--two SW of 100 kW and 50 kW, and a 100 kW MW xmtr (WBI 19/6)
- ✓ **MEXICO** R. México anc'd 5/7 that with help of GDR engineers, Mexico would build a SWBC center at Oxaltepec, 50 km from Mexico City. E. Germany would cooperate in planning, supply of xmsn and comms eqp and training of tech personnel (WBI 10/7) If R. México then reaches the USA as effectively as RFI, it won't be much of an improvement! (gh)
- ✓ **PERU** In a 17/6 report from Lima, AFP quoted the pres. of the Inter-American Radio Association that the Peruvian president-elect would return all radio stns and other media to their former owners. Since 1971 the previous govt had taken over radio stns and at present controls 8 of them totally. It also owned 51% of the stock of 3 others and 25% of another 8 (WBI 26/6)
- ✓ **PORTUGAL** R. Renascença has begun work on their new SW site; it could start operating before yearend, with one or two xmtrs of 50 or 100 kW for broadcasts to expatriates (Carlos Relvas de Assunção, Portugal, via WMR DX World 20/7)
- ✓ **SOUTH AFRICA** (Cf July LN-7) R. RSA's SP & PT service probably won't begin until Apr 1980; in the 0000-0200 GMT period (Pieter Martins, R. RSA via RN Ondacurtiçao 17/7)
- ✓ **SRI LANKA** VOA is due to sign fresh agreements with SIBC whereby SIBC is to have full time access to one of VOA's 35 kW units and the other two when not in use by VOA. DW also to sign agreements whereby 600 kW MW and 3 x 250 kW SW xmtrs are to be set up at Trincomalee (UADX)

SURINAM R. Apintie confirms the power on 4795 will be increased to 500 W; and they have a new C.E. to send reports to, Mr. R. Kowsoleea (WMR DX World 6/7)

SWEDEN Press release from an antenna company in England says it has been awarded contract to supply a new antenna system for the Hürby SW stn--6 new dipole curtains capable of taking the full 500 kW output of the xmtrs, and should be operational by 10/80; value 900,000 pounds (WMR DX World 6/7)

U S A On a June visit to Greenville, the word was that Bethany might not be closed down as early as the end of August as previously planned (gh) The closure will probably not take place until a further 3-4 month shakedown period of the new satellite circuits has been completed (as was the case with Dixon). Even when the satellite feed system is in use with other sites, it is planned for Ascension, Botswana, Bangkok and Colombo to continue receiving only off-air HF feeds. To alleviate putting all its FE 'eggs' in the one basket of the Philippines now that Honolulu, Okinawa and Dixon have closed, the VOA is investigating possible new sites in Darwin and North West Cape, Australia; Guam; Honolulu; and in the Aleutian Islands, as part of a long-term re-assessment of future needs (Robert Jones, NSW, July ADXN)

YUGOSLAVIA Tanjug reported 2/7 that a new law had been adopted, including a powerful new SW xmt and studio centre to be built at Bjeljina in Croatia, estimated cost 600 million dinars, and Radio Industrija Zagreb would produce much of the equipment; pgms would be transmitted in 9 languages (WBI 10/7)

ZAMBIA R. Zambia reported 5/7 that radio reception in the NW province should improve by year-end, when the regional xmt, now under construction at Solwezi, was completed (WBI 10/7) SW?

DX PROGRAMS

ARGENTINA Sr. Omar José Somma, P.R. man at R. Universidad de La Plata, LR11, has a DX pgm GMT Mons at 0000-0100 (Somma, PLAY-DX 23/6)

AUSTRALIA The ARDXC amateur net, each Tues at 1200 on 3545v may soon include the very latest DX tips provided by Melbourne DXers; NCS Rob Wagner VK3BVW (July ADXN) It appears that ARDXC is blocking the re-emergence of a DX pgm on R. Australia because it refuses to share the glory with any other Australian DX club, as RA would prefer to have it (gh)

AUSTRIA Jonathan Marks has left Austrian Radio, is no longer involved with 'SW Panorama' or passing on info to Vienna (June WDXC Contact) Well, something he pre-taped heard since this was received; he also hosted BBC World Radio Club a couple of weeks; where'll he turn up next?

CANADA Topics on August RCI DX Digests: 3/8: RCI technical monitor in France Gerry Casey. 10/8: interview with French DXer Jean-Jacques Bloch; Jeff White HAP report. 17/8: Carol Feil, DSWCI, on using computers to compile tips; Harold Sellers' ANARC equipment report. 24/8: interview with Wolf Harrant, Austrian DXer and broadcaster. 31/8: EDXC and HAP-Europe reports; interview with Andy Sennitt, asst. ed. of WRTH (Ian McFarland) It is possible that the 0000 edition of DX Digest will be retimed to Sun 2330 GMT in Sept, Mon 0030 once DST is over in late October. Plans will be announced on the air (Ian McFarland, ANARCON 80)

GUATEMALA In connection with the 'World's Biggest DX Contest', the RCI DXD edition of SLBC's Radio Monitors International will also be broadcast in October by AWR-Europe & AWR-LA (AWR-As)

NETHERLANDS The 31/7 edition of DX Juke Box was to be the last presented by Frits Greveling, who after 4 years in Holland is returning to his native South Africa and a new job in radio (WMR DX World 27/7)

PORTUGAL 'World DX News', pgm formerly produced by WDXC is now presented by Ron Myers and Victor Hulbert using material supplied by AWR-Sri Lanka--feature talks by Adrian Peterson; phone-in tips spot is in hands of Finn Krone of Denmark, who will be in weekly touch with Gordon Derling, UK. 9670 0930 Suns via Sines (WDXC via WWDXC June)

U S A WPTF-680 Raleigh NC is running portions of my 'World of Radio' DX/SWL program most, but not every Sunday night, usually at 9:30 ET, but could be later, or as early as 9:05. Please contact your NPR station and ask them to carry World of Radio when it becomes available. They should watch for messages about the details (gh)

U S S R R. Moscú's Spanish 'Club DX' is on Thurs at 2235, Fri 2035, Sun 1905 to Spain; and to Latin America at other times (R. Nederland Espacio Dixista 5/7) & see below

PROGRAM NEWS

CANADA On 2/8 thru 23/8, RCI African Service's 'Canada à la Carte' Sats 1800 on 15260 17820 features a 4-part series by Lil Garson, "Life in the Coke Ovens", recalling the days of her childhood, growing up in the NS steel mill town of Sydney, a rough and ready milieu with neighbors from abroad (Ian McFarland)

JAPAN Per R. Japan News, PBS will broadcast 2 documentaries and 3 dramas produced by NHK-TV on Fri at 10/9 pm from 29/8, in the 'Television from Japan' series (John R. Tulloss, WA)

TUNISIA R. Tunis anc'd that between 16/6 and 15/9 when summer working hours are in effect, news in Arabic would be at 0500 0600 1300 1600 1900 2300 (main bulletins); 0700 0900 1000 1100 1200 1400 1500 (summaries); 2100 (review); SW fqs are 15225 11970 7225 (WBI 19/6)

U S S R Preliminary observations 18/7 by Ralf Munster and 21-22/7 by gh indicate that RMWS has again shifted its feature pgm-sched one hour back to the 0701/1311/1911/0111 cycle (gh) Mx pgms at 0530/1130/1730/2330 /hour later now? gh: Sun/Wed Music @ Your Request; Mon Disc Panorama; Tue Jazz Show; Thu Folk Box; Fri Music & Musicians; Sat Moscow Medley (WBI 3/7)

CLANDESTINE CRANNY

Free Voice of Iran American officials acknowledged today that the US was responsible for clandestine

radio broadcasts aimed at undermining Khomeini. The pgms broadcast in Persian from Egyptian transmitters, one believed near Alexandria, the other near the Suez Canal, appear to have begun in May, the officials said, and were set up by the CIA. The CIA would neither confirm nor deny. The nightly broadcasts featured music by Gagoosh, a popular female singer from Iran; appeals to the Iranian army not to fight Kurdish rebels; and support for exiled former P.M. Shahpur Bakhtiar (David Binder, New York Times 29/6 via Foxworth) State Department officials denied yesterday that the US had anything to do with radio broadcasts into Iran attacking Khomeini. They said this stn might come from Iraq, Saudi Arabia or Egypt under sponsorship from groups in those countries (Washington Post 30/6 via Foxworth, NY; Dan Lang) Sked is 1500-1550 daily in Persian on 9590v; first hrd 29/5, and is said to be run by supporters of Ali Oveysi (WBI 3/7) American officials confirmed that Gen. Oveysi had established a xmtr in Iraq beaming anti-Khomeini messages into Iran 3h a day (Richard Burt, NY Times 12/6 via Malcolm Kaufman)

R. Iran in Persian hrd in progress on 9580 1410 20/6 -1425*. Unstable xmtr hrd following days on spx same fq 1330-1430 spx--talks, comments, mx, Iranian songs; gives address as P O Box 274-11, Paris, and remarks at s/off: "Like all freedom-loving people and Shahpur Bakhtiar, the motto of Radio Iran is 'Iran will never die'" (WBI 26/6)

Voice of the People's Kamikazes (Persian: Seday-e Fadayan-e Halghe), broadcasts to Iran in Kurdish, Farsi, Arabic, on 9740 via R. Baghdad; Farsi 1430-1530 (S. Mannelli, Play-DX 23/6) ? Radiyo-e Mujahidin-i Afghanistan since 25/5 is on 9495 ex-9710 // 15305 at 1600-1630 in Dari, 1630-1655 in Pushtu. Detailed monitoring reveals that both this and R. Vatan operate from the same xmtr site (Shigenori Aoki, NDXC via WMR DX World 29/6) I.e., R. Cairo--the two stns have been heard sharing 11760, while R.M.A. has been heard on the regular Cairo channels 9495 and 17785 (Aoki, NDXC via SCDX 24/6) R.M.A. hrd past few weeks on 15305 and 9710, 1600-1655; despite extremely poor reception and apparent jamming, it has been established that the stn is hostile to the Afghan govt under Babrak Karmal and to Soviet involvement in the country. This stn had been hrd on 4/3, 5/3 and 6/3 on 9730 but was not positively IDed (WBI 19/6)

V. of Iraqi Kurdistan hostile to the Iraqi govt, anc'd that from 25/6 its pgms would be on the same fq every evening 1600-1700, 6253; repeated 0300-0400 next day; in Kurdish and AR. However, VOIK currently broadcasts 1530-1630 & 0330-0400 (WBI 19/6) Half-hour timezones! (gh)

V. of the Arab Revolution was intercepted 4/7 at 1545 on 1175 kHz--critical of Lebanese rightists and govt and Iraq, but praised Iran; nx 1700, 1830; 1900* to return at 0500. Same name as a stn hrd only on 16/5/79 on 1443 (WBI 10/7)

V. of Free & Unified Lebanon, AR lang on 1308 hrd 4/7 1715, critical of Phalangists, supporting former pres. Sulayman Franjijah; 1830*; first hrd 10/78 (WBI 10/7)

V. of Palestine, V. of the Palestine Revolution pgm in AR via R. San'a daily 1600-1630 on 9780 4853 and 1204 was also hrd 25/6 and 26/6 on 6005--the fq used by the cland. Democratic Nat'l Front Radio, daily in AR hostile to govt of Yemen Arab Republic, 1400-1600 (WBI 3/7) Current sked of VOPVOPR stn in AR shows 1600-1900 on 1270 1143; two xmtrs relay same pgm but not always in parallel and were noted 7/7 to be 75 secs out of sync (WBI 10/7)

Green Tunisia (Tunis al-Khadra) (cf May LN-8) may have changed fq to 1578v--weak signals 2100-2300 in Italy (Massimo Gherardi, June DSWCI SW News)

Voix du Sahara Libre, noted 19/5 on 21715 in FR at 2250-2258*, with Polisario 7th anniversary pgm; probably from Algeria; not hrd since (Mike Brooker, CMS Telegram 20/6)

Revolutionary Voice of Zimbabwe outdated pgm finally dropped by VORE (Ethiopia); was at 1900 on 9560; no other xmsn has been substituted (QTH Africa 30/6)

V. of the Malayan Revolution hrd 24/6 *1450-1458 fade on 15790; very weak (Reinstein, FL)

R. Tanafo operated in 1976-77 on 75m with 10 watts, w/s Jimmy Stevens, President of the Na-Griamel Federation. Jimmy Stevens is still in the news as involved in the Espiritu Santo secession from New Hebrides/Vanuatu, so I wonder if R. Tanafo might be back on the air (Derek Lowe, TN, ASWLC) See, see July LN-7; I couldn't remember the name (gh)

La Vox de Alpha 66, Cuban clandestine, hrd 27/6 at 0110-0120* on 7047; usual excited anti-communist rhetoric and martial mx; compared to tapes of R. Libertad Cubana, I found it was none other than Comandante David on both stns (Steven Reinstein, Miramar FL)

R. Abdala in a fund-raising document says it has been on the air since 1972, has four 1 kW xmtrs on 7080 kHz, sked Mon-Fri 8 pm /local/ and Sun 6 pm. They're trying to raise \$12,000 for a 5 kW xmtr to assure reception all over Cuba (via Havana Moon, NNRC July) more, LN-14

R. Libertad Cubana on 7091a 0116-0118* 21/6, short talk by David on AM, mx, IDs, anthem, SIO 222; afterwards a hem broke in on SSB urgently talking with El Comandante (Mike MacCollum, IN)

La Vox de la Junta Patriótica Cubana is the stn of the Miami-based Cuban Patriotic Board, an umbrella organization for over 100 anti-Castro groups (John Santosuosso, NNRC) Hearing this since 12/6, originally 0300-0340 but later 0200-0230. The only anti-Castro that gives a regular, clearly identifiable signal here and seems more powerful. Quite a lot of surprisingly MOR music; very good in pgm planning and tech quality. These people know what they're doing, and it makes for good listening (Mike Tripka, Highland Hts OH) Hrd 11/6 0229-0258*, 13/6 0309

-0319*, 18/6 0215-0229*, 20/6 0317-0327*, 21/6 0215-0218, 11/6 it was on 7399a with passionate-sounding pre-recorded speech by a man; after 0258* another stn came on, also IDing as LV-DEJPC, much weaker sig and pgm hosted by woman to 0331 when same recorded ID as on previous stn, then Cuban anthem to 0333*. 13/6 the switch came at 0319; 21/6 they were on 7410a with heavy RTTY QRM. 4/7 0226-0231* & *0232-0400*; 6/7 0409-0502*; 8/7 0252-0253* and 0254-0319*; 9/7 0219-0222* & *0225-0322*. So it seems to me there are two separate xmtrs, possibly more, behind this operation. In the first xmsn, there's a lot of talk, most of it recorded, SIO 222 while the second, which usually starts about a minute or so after the first goes off, always on same fq (7400-7401 in all cases) with a lot of mx, talk sounding live, SIO 333; the second also tends to go off the air for a few seconds everytime it is on. Both play the Cuban NA before s/off, making it easy to tell the first from the second (Mike MacCollum, Indianapolis IN) LVJPC hrd 7/7 on 7400 0314-0323*; mentioned Castro only once; SIO 333 (Scott McClellan, Battle Creek MI) Hrd on 7400 to 0325* NA (Jim Conrad, IA, 4/7)

Spy Numbers 5-digit, non-repeated YL AM spy w/apparent RHC in background, very apx fq 7325, in SP. 0644-0724, went off & on, blank carriers, false starts of tape; RHC audio, along with large scratching noise disappeared when first s/off at 0641; on returning, woman said 'Atencion 842' once, I think; 21/6, SIO 444 (Mike MacCollum, IN)

R. Enoch was back on the original 1978 fq of 6272 11/5 1000-1100, strong, mentioning MW, FM and TV tests (John Campbell, June DSWCI) Back on 6270 playing recorded speeches of Enoch Powell; criticised R. Sweden for anti-South African stance (Mike Barraclough, WDXC Contact June)

Belgium An epidemic of free radio stns on FM here; started 2 years ago in Wallonia and Brussels but now all over the country; mainly between 100 and 104 MHz, most refusing to admit ads and political connexions. Some of them: Radio Huguette (in Mi Amigo style); R. Capitale, 102.3, 24h in FR, DT, EG (Marnix Barbiers, Belgium, WDXC) After raids, stns are coming back with bigger transmitters (John Campbell, DSWCI)

France France-Inter reported 20/6 that there had been 'a fresh offensive' against pirates; the police in Lille had raided Radio Lille-80 confiscating eqp; likewise on the HQ of the Lyon Free Radio Collective, i.e. R. Camur, R. Pipelette, R. Guignol (WBI 26/6)

R. Venus, new pirate giving QTH as southern Netherlands; plays British, US, GM, DT pop, rock and country; 6235 kHz, asking for letters to Box 54, Varsseveld (James C. Clifford, Bamberg)

R. Impact testing on 15050 and 25650, to be used in parallel for spl test to Nam 1300-1500 Sun 6/7; reports welcome at Kent Place, Norwell, Newark, Notts, England (Mike Burden) Tested 15050 on 1/6 morning and after 2000 the not hrd here; 25625 first Sun in July (Barraclough) Hrd on 25625 at 1640 (Bank, Israel, SCDX 8/7)

Radio V.C.R. hrd 11/7 0222-0358* on 7355, 5 or 6 records in a row, IDs for 3 minutes, power claimed 25 watts; poor, deep fading lot of QRN (Thomas Semesky, Gary IN) Date above probably should be 12/7 as matches next report (gh) 12/7 0222-0358 on 7355, SINPO 32122; IDs as 'R. VCR, pirate broadcasting stn', fq as '7 point 355 kHz'. Lots of fading but local quality at times leads to belief it's on south side of Chicago (Thomas D. Haskett, Gary IN) 12/7 on 7355, 0334-0358*, back on at 0631-0636, repeating earlier songs, taped IDs; 13/7 0331-0359*; 14/7 0338-0400*; fairly clear audio, good signal (Kirk Baxter, Mission KS) unID pirate 14/7 on 7354, 0205-, no IDs (Derek Lowe, Jackson TN) Radio CPR 13/7 0312-0359 on 7351a, fair, SIO 342, rock mx, IDs at 0325 and s/off, claimed 25 W (Scott McClellan, Battle Creek MI)

Ram Radio 26/6 0110-0150* on 6232, fair with rock and new wave, curt IDs by male. 300C and 'we're gonna pull out our beach towels and suntan lotion' (William J. Martin, Wilmington DE) 29/6 0625- tune in, 6232.2, pomp rock, identical ID between selections; 'This is Ram Radio, transmitting on 6232 kHz'; faded by 0700 (Jay Novello, Endwell NY) 29/6 6232a 0630 tune in to 0804*, hard rock, ID as above; 'On the sandy beaches of Lake Ontario'; definite Ontario accent; into pgm of xmtr problems (hi) 0755; nice audio (Scott McClellan, Battle Creek MI) 29/6 0638-0804* as above; 'George' and 'Ron' mentioned during tests 0752-0804 (Thomas Semesky, IN)

V. of the Lumpfish hrd on 7430 and third harmonic 22290, 1723-1806, claims Altoona PA QTH, w/ 1000 watts. Bugle IS followed by pop mx and jokes; also appeared ancr was receiving oral sex while on air; quite unusual; have it on tape. Hrd by: Bares, Barto, Cartwright, Cucura, Hoffman, Kleppick, Lang, Lentz, Taylor, some non-NASWA members and myself at PA DX gathering at State College PA (Don Moore)

Syncom International's 'crazy IS' is a jingle once used by R. Mi Amigo. Syncom will soon be concentrating on 41m with long xmsns on Sat/Sun GMT w/pirate and regular DX pgms (Andrew Wallace, Chelmsford MA)

PRN 24/6 on 1615, better on 2nd harmonic 3230 at 0330; that it was Peru! Also an unID pirate on 1615.0 relaying a CI FM rocker 0230/30/6; like a month ago on 108.7 FM (Richard Stoller NY)

R. Confusion Appeared as sked 23/6 *0059-0208* on 14550, ID as 'This is R. Confusion World Service, a member of the Crazy World Radio Network'; very pro, rock mx, time checks, ads for Wavelength, Crazy World News, etc; ancrs Crazy Raja and Crazy Chollie (Thomas Semesky, Gary IN) Same here, strong signal more than slightly distorted; mx of a contest on their July broadcast (Mike MacCollum, IN) Fair to inaudible (during deep fades); 0153 down to 14548 and better than on previous 14553; 'We're all gonna get crazy!' (Steven Reinstein, Miramar FL) QSL postmarked New Haven CT said they have a Heathkit DX 100B with 150 watts, and dipole (Wheeler Conover, Manchester KY) Next broadcast 28/7 GMT 0100 on 14550 ± 10 (Crazy Roger, in QSL to gh) Don't jump to conclusions, cf ITALY, LN-5 (gh)

Moonsline Radio LN-14

R. Clandestine hrd 7/6 on 6140 at 2205, quiz show parody, many IDs, rock mx, some oldies; said xmtg somewhere off the American coast; strong and clear, SINPO 45434 at first but faded by 2228; Box 100 New York report, cf May LN-5 was returned for no zipcode (Richard A. D'Angelo Wyomissing PA) 21/6 0716-0733* on 6065, played same mx as in above report, host R.F. Burns, pro-sounding jingle, SIO 555, great audio to slightly overmodulated (Ben Radcliff, Ottawa IL) The RCI Monitoring Service heard it too, on 6065 at 0600-0700* 3/7, and a tape was played on DX Digest 6/7 (gh)

V. of the Pyramids hrd two nites in a row, 21/6 & 22/6 on 6240a; first night 0438-0502, second 0508-0514*; rock, ID, ancr almost whispered, FRC address (Thomas Semesky, Gary IN) 21/6 0442-0502 on anc'd fq of 6240, odd mx, many IDs, addr, mentions of B.B.I. (from Voice of Voyager fame), SIO 232, more QRN next day 0507-0515 (Mike MacCollum, IN) 22/6 on 6250a 0455-0515, weak, lots of QRN; tone IS 0455-0500, ID, rock including Queen's "We Will Rock You; We are the Champions": gone by 0515 (John Fisher, Chelmsford MA) unID pirate 5/7 0358-0415* on anc'd 6240, SIO 242, "The Voice of the ---"; IS, ID, fq; believe said longer broadcasts would start next week (Scott McClellan, MI) On 6240 0408-0420* 6/7, soft-spoken man with skeds and many fqs; mentioned FRC (Dave Valko, Dunlo PA) 6/7 0413-0420* on 6241, strong stn with weak audio, IDs; mx much clearer than voices (Kirkman G. Baxter, Mission KS) Our current sked; we will try to make at least one BC during each 4-hour period; all begin on the hour preceded by 5 min IS, GMT Sats & Suns; emphasis on underlined fqs. 0200-0600 4670 6240 9330; 1800-2200 11650 15020 17550; tests also at other times on these fqs; next weekend we will relay R. Quadro of West Germany at 0300 on 9330 (V. of the Pyramids, postmark Southeastern PA, 10/7) & via Semesky

R. Telstar hrd 29/6 0215 on 6280; EZ listening mx, George Carlin, disco; no addr but asked for phone calls; fair-to-poor; numerous breaks in xmsn; 0400 anc'd QSY to 7400; at that point pgm consisted of relaying R. Quadro (anc'd as a Baro pirate stn) (Richard A. D'Angelo, PA)

"WONS" Hrd last broadcast of WONS 4/7 2307, lost by 2340, on 6955; gave phone as 212-949-9979 so I called and thank friendly Joe Snow. Says he knows 'Ray Haber' of former pirate WARG, now off the air, but stns are not connected; 50-100 miles apart. But he said WARG was on east coast and he was in Midwest. Said he was on the air about a year before hrd, because he was loading xmtz wrong; started WONS to please a friend who is a pirate radio nut. He will reveal where WONS was in a few years. Good luck in college, Joe Snow; Ray Haber, I'm still waiting for my WARG QSL (Scott McClellan, MI) On 6955 0129-0130* 5/7, just caught s/off with ID, phone, and 'a little secret'; "Good-bye, and it's been fun" (Dave Valko, PA)

R. Indiana will make spl test NAM date 4/7, from midnight EDT, the top 10 minutes of every hr on the hour: 0400-1200 GMT on 7360 or 4004; 1200-1400 on 13990; 1400-2300 on 21600 ± 10, 2300-0400 on 6990 or 4004; also may use 3490 during darkness (R. Indiana) I tried just about every hour and had no luck; did they indeed broadcast? (Chuck Kristan, PA) Hrd 4/7 on 4003 at 0404-0408, man IDs, QSL info, muffled audio but mx much clearer; 0500-0508 again, unintelligible; 0603-0607 mx and talk; nothing on any other sked broadcasts; MARS QRM on 4004; 6990 would be better at night (Kirk Baxter, Mission KS) 4/7 on 4003a 0404-0407*, 0500-0507* and 0600-0609*, all similar in content, including Al Muck's Wavelength ad, ID, mx; promised QSLs and ended all 3 xmsns with 'Auf wiedersehen, goodbye' (Thomas Semesky, Gary IN) 4/7 0503-0508* and 0601-0609*, both on 4004, SIO 222; 'Goodbye' in several langs (Scott McClellan, MI) 4/7 0607-0609*, 0700-0709* on 4004, many IDs, etc, 5/7 on 6983 with very bad audio 0304-0306* and on 4003 0401-0407*, SIO 222-333; unhrd in local daytime; 6983 anc'd as 6990, TC two mins too fast (Mike MacCollum, Indy IN) Also hrd on 21/6 on 4010a 0246-0251 (MacCollum) 5/7 0303-0307* on 6990, usual phone 766-9979; mentioned a R. Indiana newsletter via FRC; signal and audio were good, much better than 27/4 test (Shawn McDaniel, IN) 5/7 on 6975 or 6980, 0307 ID, phone as above (Dave Valko, PA)

"KVHP" hrd with music only around 0930 20/7 on 6420a (Lani Pettit, Irvine CA)

"RXAM" Voice of Clipperton hrd nightly Mon-Sat 0555-0630* always beginning with mx signature then ID in EG, world mx; feature pgm varies--usually old time radio like GangBusters, Amos & Andy; often Tue night is their DX and mailbag pgm, which is worth listening to! Anc'd fqs are 7375 and 7327 but I log them at 0737 and rarely 7370; quite good 43233 average signal (John Waldburger, Edmonds WA)

IN MY OPINION

(Glenn Hauser) Some 22 letters were received on the pros and cons of covering pirates in LN; they could easily fill up several more pages, so I'll summarize. In favor were 15: Andrew G. Wallace, Don Moore, Max Greenwood, Roger Deroy, Steve Reinstein, Tom Mooningham, Tom Haskett, Gerald P. Word, Ben Radcliff, Mike Hardester, Mike MacCollum, Scott Nelson, Scott McClellan, Wheeler Conover, William J. Martin--the many of these expressed reservations of one kind or another. With stronger reservations so I put them in the 'maybe' category are Richard H. Miller and Edgar Lee Chatten, Jr. and 5 were opposed: Hadley D. Cress, Al Leary WD8KTR, Ralf Munster, David Newkirk AK7M, and Kenny R. Johns who again suggests there is a better medium for all this, the Free Radio Campaign, R.D. 2, Box 542, Wescosville PA 18106. Yet, this response is insignificant in a club the size of NASWA and it would be remiss of me to continue just on the basis of a 15-5-2 'vote' so I am doing so according to my own conviction and many of the points raised in the letters. I have decided not to publish full addresses or requests for QSLs any more, as it is pushing things too far for NASWA to be such an intermediary; pirates might instead refer to the NASWA address book and QSL all reports printed; and/or work thru the FRC. Reports on pirates, just like any other DX stu, are still wanted for LN and will be tightly edited for space.

PUBLICATIONS

The Shortwave Propagation Handbook, is a 163-page softbound book by acknowledged experts in the field, George Jacobs, W3ASK, and Theodore J. Cohen, N4XX. Lots of illustrations, charts and tables, and only a few formulas. Without yet having had the time to read it through, I can recommend it highly. Personalized, autographed copies are available from Mail-a-Prop, P.O. Box 1714, Silver Spring MD 20902; price is \$7.50 ppd in USA, \$8.50 surface mail worldwide; \$10.00 airmail worldwide. Jacobs' fortnightly Mail-a-Prop, itself, may be sampled from the same address by sending an SASE; or a 5-issue trial sub is \$6; annual sub of 26 ish is \$25 (gh)

Trends in the Naming of International Broadcasting Stations is a paper by Dr. Richard E. Wood, S.E. Missouri State Univ., pp. 192-211 in 'Pubs, Place-Names, and Patronyms', selected papers of the Names Institute, Fairleigh Dickinson Univ., No. 1, 1980, edited by E. Wallace McMullen. No information on availability (gh)

International Number Stations, 2-page article in Radio-Electronics by Robert B. Grove. Not much new info, but some brief tables of when and where to listen; illustrated with irrelevant photos of various rx models. Believe in the June issue, but this not indicated on pages (gh)

Third World Radio News, primarily for Springfield, MA area but sent anywhere in US @ \$1.25 an issue. Articles about local radio scene, especially music formats, black, Spanish, and the area between NYC and Boston; 50% radio paper, 50% family entertainment. May issue also included some info on SW programming, especially music. Order from Bill Caldwell, Box 54, Chicopee MA 01014. Very home-made, but somehow appealing (gh)

La Revista Programa de LRA 1 Radio Nacional, is a monthly magazine (June was 64 pages) with extensive listings of AM, FM (and SW) programs from the Argentine domestic service, plus many articles on music and the arts (all in Spanish, of course). Domestic subscription rate is given as \$ 24,000.-- in Argentine pesos; \$2,000.-- for a single copy; payment preferably by postal money order (No doubt additional cost to be sent abroad). Inquire from Ayacucho 1556, 1112 Buenos Aires (via Carlos Maslatón)

WTH Newsletter Don't expect the Aug issue until monthend, due to fq mgrs' holidays (WMR DX)

Tropical Bands Survey 8th ed. just off the press, non-member price 8 IRCs (10 if by air) to DSWCI, Greve Strandvej 144, DK-2670 Greve Strand, Denmark (WMR DX World 22/6)

Radio Tirana, a 68-page booklet with many photos, pgm analysis, stn history, info about mass comm in Albania, political comments, stories, humor, is offered by Weltweit Hürten's background editor Rainer Pinkau; DM 6.30 or 7 IRCs (8 by airmail) from him at Weender Strasse 30, D-3400 Göttingen 1, West Germany (SCDX 24/6)

Sweden Calling DXers Due to budget cutbacks, SCDX mailings are being reduced to four-weekly rather than two-weekly (SCDX broadcast 8/7)

ARRL Operating Manual Cf July LN-13. Price is \$5.00 even (David Newkirk, Seattle WA)

Radio Waves, Boston AM+FM guide, expected to cover SW programming in Aug or later issues (gh)

LAST MINUTE ITEMS

BOTSWANA Cf June LN-5, 4855, typo for 4845 or new fq? (Ben Radcliff, IL) Can't find notes, think 4845 right (gh)

CLANDESTINE (cf LN-11) R. Abdala 4/7 at 0315 on 7360, numerous IDs; possible 11-note IS on piano or harp played thrice. Very professional; short talk followed, then pattern repeated. May have been tape. LVJPC on at same time, stronger, on 7400 (William J. Martin, Wilmington DE) (Pirste) Moonshine Radio now taking reports for QSL via FRC, addr LN-13 (J. Blackbeard)

CHILE R. Nacional hrd 1/6 1125-1150* on 8175a USB w/boxing match from Japan. // R. Calama 6100 (T. Hirahara, N. Aoi, K. Asano, Radio Nuevo Mundo 17/6)

GUATEMALA (Cf LN-5) R. Nacional 6180+0830-1230+, seems 24h since 6/6 in connection with its 50th anniversary (T. Murao and K. Nakao, Radio Nuevo Mundo 17/6)

LEBANON New fq for R. Lebanon's SAM svc at 2300-0100 is 17890 (R. Levinstein, RN PT DX 17/7)

LIBERIA 1/7-obs show ELWA ('Eternal Love Winning Africa') continues on 711 kHz but also announces SW outlet on 6135, in EG for Monrovia & vicinity (WBI 10/7)

SOLOMON ISLANDS Cf LN-7. SIRC also 8/7 on 9545 0810-0814* about boat movements, excellent signal (Syd Osterman, Ont.) 19/7 on 9545 0700 past 0800 with pop mx, 0729 pgm summary (Kristan PA)

UNITED ARAB EMIRATES Dubai R&CTV caught 20/7 0200 on 21700, strongest SW signal I've received in a semiyear or more; //17750 not quite as strong, 0213* on 21700, 17750 0216* (Kristan, PA)

UNIDENTIFIED

5045.7 Wish someone would ID the Brazilian here; Prudente? mentions Mato Grosso, nowhere near there (Richard Stoller, NY)

15255 21/6 at 0216-0239 fadeout, AR(?) chants, 3 pips on half hour, nx by man (D'Angelo, PA)

Montreal DXers Hotline operates Mon/Tue/Wed only at 8-11 pm ET. Telephone loop for direct-dial prepaid only: waiting side: 514-766-1194; calling side 766-1195. Further info for US or Canadian SASE or 2 IRCs from Frank Labelle, PO Box 603, Verdun PQ H4G 3E4 (DX Party Line July)

New Directions Radio is an 'alternative' ham net, among other things anti-draft & anti-nuke; for their latest schedules send 25¢ for their newsletter (or \$1 for 4 issues) to: Art Mourad, WB2POB, Box 787, Bergenfield NJ 07621 (gh)

naswa AWARDS reports

7921 Anfred Drive
Laurel, Maryland 20810

August, 1980

The following report gives all awards issued during the period 1 April 1980 through 30 June 1980. All awards are listed in chronological order of issue.

EUROPEAN CONTINENTAL DXER

Donald Minor
Don Saunders
Michael T. Laird

EUROPEAN CONTINENTAL DXPERT

Gordon Blom
J. Roland Desrosiers
Dave Valko

SOUTH AMERICAN CONTINENTAL DXER

James B. Douglas
Charles E. Hoffman
Chris Leitner
Walter Dittrich

SOUTH AMERICAN CONTINENTAL DXPERT

C. Vernon Hyson
Dave Valko

NORTH AMERICAN CONTINENTAL DXER

Gordon Blom

NORTH AMERICAN CONTINENTAL DXPERT

C. Vernon Hyson

DXER DE PACIFICA

Richard R. McVicar
Kevin Mikell
Charles E. Hoffman

ASIAN CONTINENTAL DXER

H. J. Ackerman
James B. Douglas
Charles E. Hoffman
J. Hunsell

WORLD WIDE DXER

Majorie Oakley
Bruce Ewenstein
Kevin L. Watts
Jerry Hook
Donald Minor
Don Saunders
Richard H. Miller Jr.

DX CENTURION

Henry Ward
Walter Dittrich

SENIOR DX CENTURION

C. Vernon Hyson

MASTER NIGERIAN DXER

Richard R. McVicar

SOVIET SPHERE DXER

H. J. Ackerman
Charles E. Hoffman

ORTF DXER

Bill Whitacre
C. Vernon Hyson

EMISSORA REGIONAL DXER

Paul Buer
C. Vernon Hyson

ECCLESIASTIC DXER

David Reitz

MAPLE LEAF DXER

Richard R. McVicar

VOA DXER

Richard R. McVicar
C. Vernon Hyson
Chris Leitner
Charles E. Hoffman

SENIOR BRITISH COMMONWEALTH DXER

Gordon Blom

MASTER BRITISH COMMONWEALTH DXER

C. Vernon Hyson

ARAB WORLD DXER

Richard R. McVicar

SENIOR ECCLESIASTIC DXER

Richard R. McVicar

Well, that's all for this month. Work QRM has been really bad this quarter, and the awards were really delayed in getting out. Hopefully, in the near future, I will be getting some relief from the work QRM and will have more time to provide timely responses to the membership. Hope you will just bear with me for the next month or so, however. I was really glad to see the response to the call for the speciality awards. If you really want to try for some difficult ones, try for the Latin American individual country awards. They are really difficult and will challenge each and every one of you. Till next time,

73.

Dan Henderson

QSL REPORT

Sam Barto, NASWA QSL Editor (1-203-589-0083)
460 Emmett St. B-19, Bristol, CT. 06010

Submitted by Stu Klein in FL.

Due to vacations and other summer activities we don't have all that much to report this time around. I suspect that QSLs will pick up in the coming months...Sam.
NEADKO: Might as well push it a bit. As you well know the outing will take place on Sun. Sept. 7th. We have over 50 people who have confirmed attendance. The banquet (which will have a quality HAP auction) is scheduled for Sept. 6th. I can only accommodate a limited number of people at the banquet. The spaces are filling fast. If you plan on attending please inform me immediately or call the above telephone number. This may be your last chance...we have over 5000 items for the Handicapped Aid Program auction.

- ADMIRALTY ISLANDS:** R. Manus 3905 f/d cd. in 1 mo. for 2 IRCs. v/s J.D. Isini (Whitney-BC). same in 2 mo. via Boroko (Matthews-OH).
- ANDORRA:** World Music Radio (via Radio Andorra) 6219 f/d red/black cd. via * Holland in 3 1/2 mo. for 3 IRCs. Also rcvd. brochures on WRTH 80, World DX Guide and membership application to the WMR Club. v/s Andy Sennitt (Lobdell).
- ARGENTINA:** Radio Rivadavia 5882 "Owl" cd. in 24 ds. for a SP rpt. and 1 IRC. (Eckman-IL)...Did you receive any of their decals Rich? Pretty nice looking...Sam.
- ARMENIA:** Radio Yerevan 15515 f/d cd. in 4 mo. for a rpt. in EG/RS (Matthews-OH).
- ASCENSION ISLAND:** VOA 21490 f/d cd. in 28 ds. v/s Wayne Greene (Sedgely-CO).
- ASIATIC RUSSIA:** Radio Moscow 21490 via Irkutsk f/d "Kremlin" cd. in 1 mo. (Douglass-PA). same in 42 ds. (Eckman-IL).
- AUSTRALIA:** VNG 12000 f/d folder cd. in 16 ds. Also rcvd. a book on the history of VNG. v/s Gail Matthews (Leite-MA). Radio Australia via Shepparton on 17795 w/ f/d "40th Anniversary" cd. in 2 mo. (Grenier-CA). VLR9 9680 via Lyndhurst f/d "Map" cd. in 12 ds. for 2 IRCs. (Mosier-CA)...Beautiful cds. from Radio Australia, NHK, HCJB, etc...Sam.
- AUSTRIA:** ORF 5945 "Broadcast Centre" cd. in 64 ds. (Eckman-IL).
- BELGIUM:** BRT 15175 f/d ltr. in 42 ds. Also rcvd. transcript of the program in which my name was mentioned. (Archer-NC). 15385 f/d cd. in 90 ds. (Byron-NY)...No purple pennant!!
- BELIZE:** Radio Belize 3285 f/d "Map" cd. in 13 ds. for ms. v/s J. Johnson, Chief Broadcasting Officer. (Douglass-PA). cd. in 28 ds. for 1 IRC. (Gliksman-IL)...I believe this station is still using the same type cd. they did some 20 years ago...Sam.
- BOLIVIA:** Radio Emisoras Bolivia 4755 form ltr. in 50 ds. for a SP rpt. and 1 IRC. v/s Oscar * Elias Siles, Director General. Also rcvd. a white and blue pennant. (Hoffman-PA).
- BONAIRE (Netherlands Antilles):** Radio Nederland 15220 Special "Queen Beatrix Inauguration" cd for reception of April 30th ceremonies in 2 mo. (Lobdell-MA). 6165 f/d "Happy Station" cd in 25 ds. for 1 IRC. (McCants-LA). 9590 f/d "Dutch Girl" cd. in 17 ds. Also rcvd. station sticker and a pennant. (Archer-NC).
- BRAZIL:** Radio Bras 15290 f/d "Brasilia Building" cd. in 122 ds. for an EG rpt. v/s Reginaldo Azevedo (Byron-NY). f/d "Sunset" cd. in 25 ds. w/ station sticker. (Archer-NC). cd. in 120 ds. w/ ltr. and station sticker. (Zeichick-ME). f/d cd. in 75 ds. w/ decal. (Hoffmann-NY).
- * Radio Cultura de Cuiaba 5015 cd. in 19 ds. for a PT rpt. and ms. v/s Julio Rodrigues Jr. Also rcvd. tourist information. (Hoffman-PA). Radio Brasil Central 4985 f/d ltr. in 10 mo. for an EG rpt. (Leite-MA). Radio Cultura de Pocos de Caldas 3265 cd. and a tourist cd. in 34 ds. for a PT rpt. and ms. Also rcvd. 2 small decals. (Hoffman-PA)
- * Radio Globo 6035 white and blue cd. in 58 ds. for a PT rpt. and ms. (Hoffman-PA). Radio Clube do Para 4855 f/d ltr. in 21 ds. for a PT rpt. and 1 IRC. Stamps rcvd. (Gliksman-IL). ltr. in 1 mo. for a PT rpt. Addr: Av. Presidente Vargas, 351-2 piso, Edif. Palacio do Radio, Belem, Para, Brasil. (Mikell-IL)...Nice selection gang!...Sam.
- BYELORUSSIA:** Radio Moscow via Minsk on 15150 f/d "Olympic" cd. in @ 1 mo. (Reitz-KY).



CAMEROUN: Radio Garoua 5010 f/d ltr. in 10 wks. for a FR rpt. and 2 IRCs. (Kapinos-MA). in 144 ds. for a FR rpt. along w/ 1 IRC and ms. v/s S. Ngorura. (Dittrich-FL).

CANADA: CFCX 6005 "Montreal Skyline" cd. in 100 ds. (Hoffman-PA). same in 129 ds. (Danko-NJ). in 109 ds. for 1 IRC. (George-TX). What no RCI???

CAPE VERDE ISLANDS: Radio Voz de Sao Vicente 3930 cd. in 1 mo. * for a PT rpt. and 1 IRC. Very pleased with this one! (Kapinos-MA). You should be! Sam.

CHILE: Radio Universidad de Concepcion 6135 n/d plain white cd. and a personal ltr. in 3 mo.

General. (Lobdell-MA)...By the way Chris everyone wishes you and your new wife the very best. Congratulations!...Sam. **CCV Time Station** 8558 mimeo SP verie ltr. and a postcard in 2 mo. for a SP rpt. and 2 IRCs. v/s Vitor Valverde Steinlen, Capitan de Navio. (Krueger-FL). **La Voz de Chile** 15140 f/d "Country of Hope" cd. in 63 ds. Would you believe I am now number 213-010968 whatever that means. (Hoffmann-NY)...It could be a telephone number for that chickie at Bucaramanga!...Sam. 17800 f/d cd. in 59 ds. for an EG rpt. and 1 IRC. (Ewenstein-NY).

CHINA: R. Peking 17680 cd. and stamps in 17 ds. (Kapinos-MA). CPBS 11515

* f/d "Tai Ho Hall" cd. in 21 ds. (Leite-MA). **Qinghai** PBS 4940 cd. in 89 ds. (Moore-PA). **Guangxi** PBS 4915 cd. in 89 ds. (Moore-PA). **Hunan** PBS 4990 cd. in 89 ds. (Moore-PA). **Zhejiang** PBS 2475 cd. in 89 ds. (Moore-PA). **Nei Monggol** PBS 4950 cd. in 89 ds. (Moore-PA).

COLOMBIA: **Emisora Nueva Granada** 6160 cd. in 24 ds. for a SP rpt. and ms. v/s Carlos Lulle Borda, Gerente Tecnico Nacional. (Hoffman-PA).

COSTA RICA: Radio Casino 5954 cd. and pennant in 17 mo. for a SP rpt. (Moore-PA). **TIFC** 5055 f/d "Microphone" cd. w/ red, white and blue pennant in 25 ds. (Archer-NC)...Nice looking pennant...Sam.

CUBA: Radio Habana 11930 f/d "Fortress" cd. in 157 ds. (Caldierwood-CO).

RMWS 11840 f/d "Mischa Bear" cd. in 42 ds. (Eckman-IL).

CYPRUS: **CEC** 9585 f/d "Montage" cd. in 66 ds. for 2 IRCs. (Ewenstein-NY). same in 67 ds. for 1 IRC. (Eckman-IL).

CZECHOSLOVAKIA: **Radio Prague** 11990 "Needlepoint" cd. in 62 ds. (Eckman-IL). cd. in 1 mo. (Kapinos-MA). 11990 and 5930 f/d cd. in 68 ds. (Dittrich-FL). 7345 f/d "Zvikov Castle" cd. in 46 ds. (Semsky-IN).

DENMARK: **Radio Denmark** 15165 f/d "RadioHouse" cd. in 23 ds. (Zeichick-ME). same in 31 ds. for 3 IRCs. (Hartsell-CA). cd. in 21 ds. (Reinecker-PA).

DOMINICAN REP: Radio Mil 4930 f/d ltr. in 42 ds. for a SP rpt. and 1 IRC. v/s Patricia Lara Diaz, Dpto. de Relaciones Internacionales. (Reitz-KY).

DUBAI (United Arab Emirates): Radio Dubai 21485 "World Map" cd in 19 ds. for 2 IRCs. v/s Harold Robin, Chief Engineer. (Douglass-PA). in 53 ds. for 2 IRCs. (Onken-IL). 21480 cd. in 12 wks. for 1 IRC. (Klein-FL).


ECUADOR: **HGJB** 15155 f/d "Quito Architecture" cd. in 3 mo. (Grenier-CA). 15250 f/d "Cuenca Architecture" cd. in 3 mo. (Grenier-CA). 11740 f/d "Church" cd. in 28 ds. for 2 IRCs (Higgins-PA). 15250 f/d "Owl" cd. in 24 ds. (Danko-NJ). 26020 f/d "Flower Market" cd. in 30 ds. (Leite-MA). **HD210A** 7600 f/d multi-colored "Logo" cd. in 2 mo. for a SP rpt. and ms. (Reitz-KY). **Emisoras Gran Colombia** 4910 ltr. and a pennant in 21 ds. for a SP rpt. and 1 IRC. v/s Eduardo Cevallos C. (Gliksman-IL). same in 18 ds. for a SP rpt. & ms. Very nice pennant rcvd. (Hoffman-PA).

REMEMBER: Get your reservations in now for the Sept. **NEADYO**.

RADIO ZARACAY
EMISORA MULTITUDES
Santo Domingo de los Colorados
ECUADOR
BOX 31 - Tel. 750149 - 759264



GOBERNADOR COLORADO
ABRAHAM CALAZACON



Estimado Sr, Lobdell.
Con la presente quiero acusar recibo de su carta con la cual confirma que Ud. escucho nuestra estacion **RADIO ESMERALDA** el dia 16 de Diciembre de 1979, desde las 04.55, hasta las 05.37 en la frecuencia 5,300 Khz.
Atentamente.

SEÑOR.
Chris Lobdell
Box 146.
Stoneham, MA 02180
U. S. A.

sent to us by Ed Kusalik



SFB
Funk und Fernsehen aus Berlin



580 KHZ. 10 Kws.
la voz de la fe
Maracaibo - Venezuela

Radio Peking QSL
via Stu Klein



QSL Column report forms (although not necessary for reporting to this column) are available from your QSL Editor for an SASE.

- ENGLAND:** BBC 9410 n/d cd. in 3 mo. (Hoffmann-NY). MSF Time Station 5000 f/d cd. in 19 ds. (Leite-MA). Nice catch!
- ESTONIA:** Eesti Radio 6085 f/d "Bits-3" cd. in 3 mo. after a follow-up. (Lobdell-MA).
- EUROPEAN RUSSIA:** Radio Moscow 15460 via Moscow f/d cd. in 42 ds. (Eckman-IL). 12030 via Tula w/ f/d "50th Anniversary" cd. in 31 ds. (Arch-FALKLAND ISLANDS: FIBS 2370 "Logo" cd. in er-NC) 150 ds. for 6 IRCs. QSL #25. (Yohana-NJ)... You * must of wanted this one pretty bad!... Sam. same in 104 ds. v/s Margaret J. Kerr. QSL #31. (Radcliff-IL). in 17 wks. for 2 IRCs. QSL #30. (Word-GA).
- FEDERAL REP. OF GERMANY:** DAM Time Station 8638.5 f/d cd. * in 40 ds. v/s Dr. H. Enslin (Krueger-FL). What no DW?
- FINLAND:** Radio Finland 21475 "Winter" cd. in 37 ds. v/s Monica Friberg. (Sedgeley-CO). 9645 "Taivallaht Church" cd. in 34 ds. (Danko-NJ).
- GABON:** RTV Gabonaise 4777 f/d "Map" folder cd. in 55 ds. for a FR rpt. and 1 IRC & ms. (Dittrich-FL). in 5 mo. for a FR rpt. and 2 IRCs. (Word-GA).
- GALAPAGOS:** La Voz de Galapagos 4810 cd. in 56 ds. for a SP rpt. & 1 IRC. v/s Padre Raul Pinto, Director. (Sedgeley-CO). in 64 ds. for 1 IRC. (Word-GA). in 90 ds. for 2 IRCs. (Witte-CA).
- GEORGIAN SSR:** Radio Moscow 11780 via Tbilisi cd. in 52 ds. (Dittrich).
- GREECE:** VOA 15205 via Kavala f/d cd. in 12 ds. (Mosier-CA). Voice of Greece 11730 f/d "Beach" cd. in 36 ds. (Archer-NC).
- GREENLAND (Kalaallit-Nunaata):** Gronlands Radio 9575 folder cd. and a personal ltr. in 120 ds. for 2 IRCs. v/s Bennet Hansen. (Krueger-FL). in * 175 ds. for 1 IRC. (Gliksmann-IL). in 5 1/2 mo. for 2 IRCs. (Mikell-IL).
- GUAM:** KTWR 11840 f/d "DX Listeners Log" cd. in 28 ds. w/ sticker. (Archer-NC) same in 2 wks. for ms. (Kowalski-WI). in 14 ds. for 2 IRCs. (Hetzl-WI). in 35 ds. for 1 IRC. (Whitney-BC). "Logo/Globe" cd. in 132 ds. for 3 IRCs. (Semsky-IN). in 22 ds. (Sedgeley-CO). 17770 cd. in 80 ds. for ms. (Ewenstein)
- GUATEMALA:** Radio Cultural 3300 f/d "Quetzal" cd. and ltr. in 8 1/2 wks. v/s Wayne Berger, Chief Engineer. (Leite-MA). same in 34 ds. (Archer-NC).
- GUINEA:** Radiodiffusion Nationale 4910 cd. in 62 ds. 2 IRCs "required" (Leite-MA). * Same goes for Radio New Zealand and Radio Afghanistan... Sam.
- GUYANA:** GBS 5950 f/d ltr. in 48 ds. v/s Joy Luke. Also rcvd. station sticker. (Semsky-IN). in 21 ds. for 2 IRCs. (Hetzl-WI). in 2 mo. (Matthews-OH). in 28 ds. (Reitz-KY). in 25 ds. (Reinecker-PA). in 35 ds. for 1 IRC. (Gliksmann-IL).
- HAITI:** Radio 4VEH 11835 f/d cd. in 95 ds. for 1 IRC. v/s Mrs. Edna Beach (Sedgeley-CO).
- HAWAII:** WWHV 15000 "Aloha" cd. in 23 ds. v/s C.L. Trembath. (Hetzl-WI). same in 10 ds. (Gliksmann-IL).
- HOLLAND:** Radio Nederland 17605 via Lopik f/d "Regalia" cd. in 21 ds. w/ pennant and stickers. (Archer-NC). same in 26 ds. (Sedgeley-CO).

FARO DEL CARIBE

RADIOEMISORA CULTURAL

San José - Costa Rica



Iluminando el Sendero de la Vida

APDO. 2710



Sept. 6 & 7th - NEADZO

We are pleased to verify your report on reception of CBC NORTHERN Service.

STATION CKLP
FREQUENCY 9.585 Mc/s
DATE March 18/60
TIME 2115 EST

Thank you for your interest.

Robt. ...

I am glad to verify your reception report dated 5 MAY 1980 in which you have monitored our home Service on 7155 KHz 2 overseas Service on KHz 2 between the hours of 23.00 GMT TO 23.32 GMT Further report will be highly appreciated

Director General
HBS

HASHEMITE BROADCASTING SERVICE
AMMAN - JORDAN

NAME CHARLES MOHR

Address Box 415 - Main

Radio Tropical from Venezuela



Corai radio tropical

RADIO ANUNCIADORA INTERNACIONAL, C. A.



HONDURAS: HRVC 4820 n/d "Logo" cd. in 36 ds. v/s Felipe Aguilar. (Archer-NC). (Byron-NY).

HUNGARY: Radio Budapest 17710 f/d cd. in 50 ds.

INDIA: AIR 11620 "Tarnadevi Temple" cd. in 237 ds.

for 1 IRC. Report was sent to India and post-marked via Washington DC. (Eckman-IL).

IRAN: NIRT cd. 15084 for Voice of the Islamic Revolution "Bandar Abbas" cd. in 35 ds. for 2 IRCs. (Witte-CA).

IRAQ: Radio Baghdad large folder f/d cd. in 83 ds. for 9745. I requested an archeological map of Iraq and rcvd. one. (Zeichick-ME). in 3 mo. for 2 IRCs. Also rcvd. station pennant. (Whitney-BC).

ISRAEL: IBA 9815/15300 f/d "Dead Sea Scrolls" cd. in 81 ds. (Samuel-MAN). 11637 same cd. in 77 ds. (Byron-NY).

ITALY: IBF Time Station 5000 f/d cd. in 5 mo. for 1 * IRC. (Brooker-ONT). in 134 ds. for 2 IRCs (Krueger).

JAPAN: Radio Japan 17725 "Water Lilies" cd. in 29 ds (Cucura-PA). 15195 f/d "Straw Horse" cd. in 3 wk (Matthews-OH). FEN 15260 f/d blue and white cd. in 23 ds. (Reitz-KY).

JAVA: Voice of Indonesia 11790 f/d "Tanah Lot Temple" cd. w/ sticker in 131 ds. for 2 IRCs. (Algeri-PA) same in 4 mo. (Mikell-IL).

JORDAN: Hashemite B/Cing Service 7155 f/d cd. in 7 * wks. for 2 IRCs. (Mohr-NY). 9560 cd. in 23 ds. after a follow-up. (Fisher-MA).

KIRZHIG SSR: Radio Moscow 21570 via Frunze f/d cd. in 42 ds. (Eckman-IL).

KOREA, REP: Radio Korea 11725 f/d cd. in 30 ds. (Semsky-IN). same in 32 ds. for 2 IRCs. (Hetzl-WI).

KUWAIT: Radio Kuwait 11665 f/d cd. in 44 ds. v/s Jawad Al-Mazeedi, Chief Engineer. (Leite-MA).

LIBERIA: VOA Monrovia 17870 cd. in 10 ds. (Archer-NC)

LITHUANIA: Radio Vilnius 7215 and 11770 f/d folder cd. in 95 ds. w/ pennant. (Semsky-IN).

LUXEMBOURG: Radio Luxembourg 15350 f/d "Towers" cd. in 157 ds. for a FR rpt. and 2 IRCs. (Tangredi-NV). 6090 f/d cd. in 2 mo. (Whitney-BC).

MADAGASCAR (Malagasy Republic): Radio Nederland 11735 f/d "Queen Beatrix" cd. in 63 ds. (Mosier-CA). "Costume" cd. in 16 ds. (Eckman-IL). 15220 cd. in 46 ds. (Zeichick-ME).

MALAWI: MBC 3380 f/d ltr. in 30 ds. for 1 IRC. v/s H.R. Chirwa. (Radcliff-IL).

MALAYSIA: Voice of Malaysia 15295 f/d "Garden City" cd. in 18 ds. w/ beautiful pennant. (Douglass-PA). in 30 ds. for 1 IRC. (Gliksman-IL). in 28 ds. for 2 IRCs. (Reitz-KY). in 30 ds. (Archer-NC).

MANCHURIA: Liaoning PBS 4830 f/d cd. via Peking in 89 * ds. (Moore-PA).

MAURITANIA: Radiodiffusion Nationale de Mauritanie * 4845 f/d "Map" cd. in 33 ds. for a FR rpt. and ms. (Hoffman-PA). in 53 ds. for an EG rpt. (Leite)

MEXICO: XERMX 5985 B&W "Logo" cd. in 37 ds. (Witte-CA)

MONACO: TWR 9495 f/d cd. and a pennant in 1 mo. for 1 IRC. (Reitz-KY).

MONGOLIA: Radio Ulan Bator 6383 f/d folder cd, flag * & viewcards in 3 1/2 mo. for an EG rpt. (Matthews-OH)

NEW BRITAIN: Radio East New Britain 3385 "Map" cd. in * 4 mo. for 2 IRCs. v/s Pearson Talwatt. (Mikell-IL)

NEW CALEDONIA: Radio Noumea 11710 f/d "Map" ltr. in 126 ds. for 2 IRCs. (Calderwood-CO).

NASWA QSL Column report forms are available from your QSL Editor for an SASE.

Radio Colossal

LA DIMENSION
LA PUNCIÓN UNA EMPRESA AL SERVICIO DE LA OPIRESA

Radio San Pedro

Very nice QSL Stu. Thanks for the telephone call. Sam.

Mayo 16 de 1990

8. World Plaza
1725-401 Southwest
First Avenue
Gainesville, FL 32601 U S A

Estimado señor:

Reciba con complacencia su atenta del 5 de abril de 1990 en la cual nos certifica que escuchó nuestra radio San Pedro en realidad en criterio lo que usted nos dice la estamos muy agradecidos por su reporte y nos complacemos saber que nos escuchó en esa plaza.

No le podemos enviar una programación por que nuestra Radio es puros en onda corta solo cuando hay algún acontecimiento especial como cuando se termina un año.

Le deseamos la mejor de las fiestas nacionales como recuerdo de nuestra Radio le deseamos y su Gran Carnaval Nacional el cual se celebra cada año el 24 de Mayo es tradicional.

Por la atención que presta a la presente su suscribo de usted

Muy atentamente,
Gustavo Rodríguez
Gerente



HAP BID WINNERS: Daniel Sampson(277), Don Moore(280), Rich Eckman(294,309), Bill Wild(305, 307), Bill Campbell(276,281,289), Lewis Parsell(304), Frank Wheeler(274,291), Dave Mosier(290), Rich Pistek(298), Nandor Petrov(284,308), Tom Semesky(283,297,302,306), Steve Sbordone(296), John Herkimer(279,285,287,301), Terry Ward(292), Stephan Loren(286) and Tom Haskett(275,278,288,303)....Thank you very much fellas.....Sam.

HAP BID ITEMS: #369: R. Clyde(Scotland)pen,red & white-beauty! #370: R. Clyde key chain,red white. #371: R. Clyde cigarette lighter,red & white-super! #372: Piccadilly Radio(UK)5" circular decal,purple,B&W, #373: Pennine Radio(UK) decal(4x4")multi-colored. #374: VOA 3" circular decal,red,white & blue-sharp! #375: WLPX iron-on patch (3" circular)yellow, black-limited edition! #376: REE cloth pennant(4.5x8")multi-colored. #377: HWJY plastic litter bag(9x12.5")white,yellow & green. #378: WNDU key chain,black & silver. #379: 303-Beacon Radio(UK)decal(5x5")red,white & blue-sharp! #380: BBC R. Newcastle decal(4x5") blue & white. #381: same as #380 except this is two different decals,each one is 2.5x11" #382: BBC West Cornwall sticker(3.5" circular)white & red. #383: BBC-Torbey,Exeter, North Devon sticker(3.5" circular)white & red. #384: Thameside Radio-BBC banner(2x10.5")B&W. #385: R. Monte Carlo sticker(2.5x6")red & white. #386: Downtown Radio(Northern Ireland) sticker(3" circular)red,white & brown-sharp! #387: TWR decal(3x5.5")white,silver & blue-beautiful! #388: R. Koper-Capodistria(Yugoslavia) official FDC w/ stamp and embossed envelope honoring the 30th anniversary of the station - a super item! #389: R. Koper-Capodistria 2 different stickers,multi-colored-sharp! #390: R. Monte Carlo sticker(4" circular)black,green. #391: Swiss Radio Intl. 3 different stickers(3x3.5") in FR/EG/GM, blue,white & red. #392: TIFC decal(4" circular)multi-colored. #393: Ecos del Torbes decal(2x6.5")red,yellow & blue-sharp! #394: R. Peking pin, white & gold. #395: R. City-194(UK) badge,orange,white & black. #396: R. City-194 decal(4.5x6")red, B&W-beauty! #397: R. Sheffield(BBC) decal (5" circular)yellow & red -neat! #398: La Voix de L'Amitie paper pennant(4x8")multi-colored. #399: R. New Zealand paper pennant(3.5x8")yellow & red #400: R. Sole (Italy)4.5" circular erotica art decal-super sharp! #401: R. El Mundo(Argentina)sticker(2.5x6")white & blue. #402: R. RSA sticker(3.5x5.5")yellow & black-sharp! #403: Norfolk Island B/Cing Service paper pennant(VL2NI)(3x8.5")-collectors item! #404: VOFC(Taiwan)multi-colored sticker(2.5x4"). #405: R. Peking paper pennant"ChingKang Mtns" (5.5x10.5")multi-colored. #406: R. Solent-BBC decal(5" circular)red,B&W. #407: KCRG T-Shirt(S)"Coke"red & white. #408: same as #407 except this is(M). #409: WBZ T-Shirt(S) "Glick Univ." white & maroon. #410: R. Gemini(48mb Euro. pirate) banner(3x11.5")yellow & black. #411: North London Radio(UK pirate)B&W banner(4x11.5"). #412: R. Mira(Columbia) decal(4x7")multi-colored-beautiful! #413: R. Goteborg(Sweden) sticker(2.5x4.5")orange, B&W. #414: R. Kalmar(Sweden) sticker(2.5x3")brown,white & green. #415: R. Record(Brasil) decal(5" circular)multi-colored-super sharp! #416: R. Victory(UK)vinal decal(5x5")red,W & blue-beauty! #417: R. Forth(Scotland)"Record" key chain,red,B&W. #418: R. Forth station badge(1.5" circular)orange,B&W. #419: R. Forth "Telephone" pen orange,black-most unusual I've seen! #420: R. Havana Cuba decal(4x4")red & white. #421: R. Zaracay(Ecuador) cloth pennant,red & yellow-really beautiful! #422: Teleradio Fregena decal(2.5x8")B&W,blue. #423: G.M. Radio decal(3x5")B&W,blue. #424: R. Latino Uno decal(4.5x6")yellow & green. #425: Westdeutscher Rundfunk decal(2.5x5.5")multi-colored. #426: ANR paper pennant(via Poona, India)(4x10")white,yellow & blue. #427: VOFC-BCC cloth pennant for the NA Service (5x8")red,white & blue. #428: R. Andorre decal(2x10")red,white & yellow. #429: R. City-194 decal(4.5x6")red,B&W - sharp! #430: Italian decals, 5 different, multi-colored.... I hope there is a little something for everyone here.Remember to send your bids to Sam Barto, 460 Emmett St. B-19, Bristol, CT. 06010.

HAP ITEMS FOR DIRECT SALE: The following stickers and decals are now being offered at \$.25 each or five for \$1.00: WRSC,WBLE,WHYL,WBZ,WJPC,WNDU,WFPB,WDSO,R. Victory-BBC,R. Sweden, R. Newcastle-BBC,R. Budapest and BRT(Belgium)...the following are also for sale: WIPA, WRVQ, R. Vatican,WGCB,KRSP,WRFK,CFCY (large), CFCY (small), KROY,KVIC,WMMNI,WHUM,WYSL,WRCM, WDET,KDKD,CKNK,WHAL,WGCL,KRPL,CFNB,WKTJ,WFME,NCFR,KEBC,WRAU,WSRS,KLOR,WQOR,WEEU,WOTW, WNVV,CKCK,KPOF and KIRO...The following items are for sale at the quoted prices: R. P.11 Rose(French Pirate)mini-poster (\$.25). KOOL "Butterfly" iron-on decal(\$.50). R. Vatican paper pennant(\$.50). VVWI(Virgin Islands)decal(\$.50). and a Radio SR(Swaziland)decal @ 20" in length(\$1.00). also R. Forth(Scotland) coasters(4.50) and R. Forth matchbooks at (\$.25)....Hope there is something for everyone here...Sam.

NEADKO: This will probably be your last chance to let me know if you plan on attending our outing on Sept. 7th. here in Conn. We have also scheduled a banquet for the 6th at the Holiday Inn. At the banquet we will have a very special HAP auction. I can only accept a limited number of people for the banquet. If you plan on attending please notify me at once or call 1-203-589-0083 for reservations. You will have a great time!....Sam.

NOTE: HAP thanks go out to Rob Harrington, Stefan Loren, Tom Haskett, and to Ted Ossege for their donations to this years HAP fund raising efforts...Sam. HAP thanks also go out to James Young and Dave Mosier...Than you all gentlemen....Sam.

NEW CALEDONIA: Radio Noumea 11710 f/d ltr. in 85 ds. for an EG rpt. and 1 IRC. (Sedgeley-CO). 7170 ltr. in 4 mo. for a FR rpt. and 2 IRCs.
NEW IRELAND: Radio New Ireland 2428 personal ltr. in 27 ds. (Reitz-KY).
 * for ms. v/s Aloysius Rumina, Provincial Station Manager. (Lazarus)
NEW ZEALAND: Radio New Zealand 15345 f/d "Statue" cd. in 15 ds. (Schlaugat-WI). 17860 and 15345 cd. and pennant in 21 ds. for 3 IRCs. (Schanke-WI). 17860 f/d "Farm" cd. in 28 ds. w/ pennant. (Hartsell)
NIGERIA: FREC 4990 via Lagos f/d ltr. in 6 mo. (Mikell-IL). Voice of Nigeria 7255 via Ikorodo f/d "Costume" cd. in 7 mo. for 1 IRC. (Kapinos-MA). Plateau B/Cing Corp. 5965 via Jos f/f form ltr. in 39 ds. for an EG rpt. and 2 IRCs. (Hoffman-PA).



PAKISTAN: Pakistan B/Cing Corp. 21755 "Minor-1-Pakistan" cd. in 125 ds. for 3 IRCs. (Semesky-IN). same in 91 ds. for 2 IRCs. (Algeri-PA). 21590 cd. in 80 ds. (Sedgeley-CO). personal ltr. in 42 ds. (Witte-CA)

"La Nueva Voz del Papayayo"

H. I. B. B.

1530 KCLS. - BANDA 60 METROS

PAPUA NEW GUINEA: Radio Western District * rict 3305 f/d "Map" cd. in 52 ds. for 1 IRC. (Moore-PA). Radio East Sepik 3335 cd. and pennant * in 34 ds. (Witte-CA). Radio Northern District 2468 cd via Boroko in 52 ds. for 1 IRC. (Moore-PA).

CX-A-19



EL ESPECTADOR
 CX 14- 810 KHZ. CX A 19-11535 KHZ
 LIBERTAD SPORT
 CX 18- 860 KHZ CX A 81- 8045 KHZ
 Divisora Rochense
 CW 37 1280 KHZ

Sonano 1287 piso 2°
 Tels: 90 14 81-82/91 70 44

DIFUSORAS DEL URUGUAY S.A.

Mr. Charles Mohr
 Box 415 - Main Station,
 White Plains, New York,
 10062, U.S.A.

mayo 13 de 1980.-

PERU: Radio Oriente (3285?) * personal ltr. in 50 ds. for a SP rpt. and 2 IRCs. v/s Leonardo Villagas Diaz. (Radcliff-IL). Radio El Sol 5970 f/d prepared cd. for a SP rpt. (Klein-FL). Radio Victoria 6020 f/d prepared cd. for a SP rpt. v/s Juan Ramirez Lazo Gerente. (Klein-FL). Radio Nacional 6082 f/d ltr. & hand stamp on my rpt. for a SP rpt. v/s Walter Meza Valera, Gerente. (Klein-FL) Radio Panamerica 5980 QSL on my original rpt. v/s Alex Dupont. (Klein-FL) ... Stu wishes to recognize Mr. Kevin Meyer who personally took his reception reports directly to each station. We need more people like you Kevin.

Acusamos recibo de su reporte de recepción del día 2 de marzo de 1980, a la hora 21.41 de Uruguay, en la frecuencia de 11.835 KHz.-

Saludamos muy atte,

Jorge Cubro
 JORGE CUBRO
 DIRECTOR APODERADO

PHILIPPINES: VOA Poro/Tinang 21610 f/d cd. in 48 ds. (Eckman-IL). FREC 11890 f/d "Native Hut" cd. in 58 ds. Also rcvd. a station pennant. v/s Zenoida Visca. (Semesky-IN).... While in Vietnam I verified over 100 receptions of the FEBC. They came in very strong and their English programs were quite entertaining... Sam.

LA VOZ DE LA ROMANA C. por A.

1540 KCLS.
 ONDA LARGA

3355 KCLS.
 BANDA TROPICAL 90 MT.

POLAND: Radio Polonia 7270 f/d "Park" cd. in 44 ds. (Fraser-MA). "Pond" cd. in 40 ds. for 1 IRC. (Ewenstein-NY). 9525 f/d "35 Years of Peoples Poland" cd. in 1 mo. (Reitz-KY). 15120 f/d "Lazienki Park" cd. in 51 ds. for 2 IRCs. (Douglass-PA). 11815 cd. in 41 ds. (Cucura-PA). 15120, 11815, 7270 10 different cds. for the DX Club application membership (#14) in 26 ds. Also rcvd. pennant. (Moore-PA) ... Which one did you get Don. They have @ 10 different pennants... Sam.

PORTUGAL: RFE 15420 yellow "Map" cd. in 23 ds. (Eckman-IL). Radio Portugal 11925 f/d "Scenes de la Passion!!!" cd. in 37 ds. (Moore-PA). Radio Japan 15435 via Sines f/d "Water Lilies" cd. in 22 ds. (Tangredi-NV).... Does anyone know if Radio Portugal still issues station pennants as they did a few years ago?..... Sam.



Radio Japan

C A R A C O L

ROMANIA: Radio Bucharest 5990 f/d "Borsa Mountains" cd. in 84 ds.
(Hoffman-NY). 9690 f/d "Moneasa Spa" cd. in 3 mo. (Matthews-OH).
SAUDI ARABIA: BSKSA 11855 f/d "Crossed Swords" cd. in 36 ds. v/s A.
M. Swailem (Archer-NC). f/d cd. in 2 mo. (Tangredi-NV).
SICILY: RAI 7175 via Caltanissetta f/d "Venere Dormiente" cd. in 75
ds. for an EG rpt. (Ewenstein-NY).
SIERRA LEONE: SLBS 5980 f/d ltr. in 68 ds. v/s H.A. Lynch. (Cucura-PA)
in 54 ds. for 1 IRC. (Eckman-IL). personal ltr. in 77 ds. (Brooker-
SOLOMON ISLANDS: SIBC 5020 f/d "Emblem" cd. in 13 ds. for 2 ONT).
IRCs. (Reitz-KY). same in 16
ds. for 1 IRC. (Buer-FL).
9545 in 21 ds. for 1 IRC.
(Eckman-IL).

SOUTH AFRICA: Radio RSA 7270 f/d
"Cheetah" cd. in 20 ds. (Eck-
man-IL). 5980 cd. in 23 ds.
w/ stickers and pennant. (Ar-
cher-NC). cd. in 20 ds. for
2 IRCS. (Schanke-WI). Capital
Radio (Transkel) 7160 f/d ltr
w/ bumper stickers in 4 mo.
v/s J.T.M. Moody, Managing
Director. (Lobdell-MA).

SPAIN: Radio Exterior de Espana
11880 f/d "Islas Baleares"
cd. in 1 mo. (O'Riordan-ID). (from the collection of Scott McClellan)
f/d "Churchyard" cd. in 30
ds. (Calderwood-CO). 9360 cd. in 31 ds. (Archer-NC).

SRI LANKA: Adventist World Radio 9720 f/d cd. and QSL stamp in 3 wks.
v/s Adrian M. Peterson. (Matthews-OH).

SURINAME: Radio SRS 4850 f/d ltr. and folder cd. in 83 ds. for 2 IRCS.
v/s Edith R. Russel. (Tangredi-NV). cd. in 3½ mo. for ms. (Mikell-IL).
cd. in 4 mo. for 1 IRC. (Reitz-KY). in 2½ mo. for 1 IRC. (Word-GA).

SWAZILAND: IWR 11740 f/d "Warrrior" cd. in 44 ds. for 2 IRCS. v/s J. Olson.
(Tangredi-NV). 6070 same cd. in 33 ds. for 3 IRCS. (Ewenstein-NY).

SWEDEN: Radio Sweden 11705 n/d "Map" cd. in 26 ds. Stickers also rcvd. (Archer-NC). cd. in
35 ds. (Caranna-VA). 15380 "Lake" cd. in 22 ds. (Eckman-IL). in 31 ds. (Calderwood-CO).

SWITZERLAND: Swiss Radio International 9725 f/d cd. in 23 ds. w/ stickers. (Archer-NC).

TAIWAN: Voice of Free China 15270 f/d "Ming Dynasty Vase" cd. in 25 ds. for 3 IRCS. Pennant
was also received along with some newspapers. (Semsky-IN).

TANGIER: VOA 15245 f/d "Satellite" cd. in 10 ds. (Archer-NC). in 11 ds. (Byron-NY). 15205 f/d
cd. in 48 ds. Tnx for return Mr. Wallace. (Eckman-IL).

TANZANIA: Radio Tanzania 15435 f/d "Logo" cd.
in 3 mo. for ms. C/V #130! (Douglass-PA).

9683 cd. in 3 mo. for 3 IRCS. (Krueger-FL).
4785 cd. in 38 ds. for ms. (Reitz-KY).

TIBET: Xizang PBS 9490 f/d cd. in 89 ds. via
Peking. (Moore-PA). f/d "Bridge and Valley"
* cd. in 18 ds. via Peking. (Onken-IL).

TURKEY: Voice of
Turkey 11955

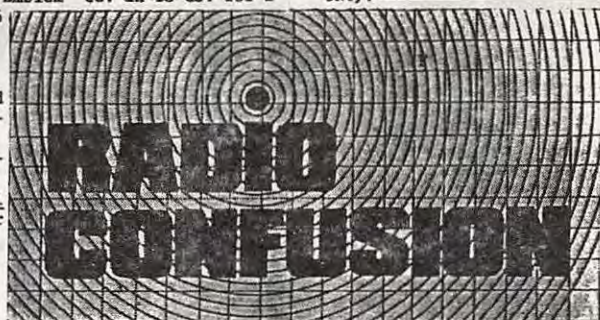
"Turkish Humor"
cd. in 50 ds.

w/ sticker. (Fr-
aser-MA). same

in 46 ds. (Sed-
geley-CO). "Flo-
wer Woman" cd.

in 48 ds. w/
pennant. (Eckman
-IL).

**PADO
MOCKBA**



Radio "Centro Qualaceo"

La Voz del Jardín Ataya
HCKDS - 3.515 KCS. - 85 MTS.
Fundada el 12 de Julio de 1959

QSL



submitted by
Ed Kusalik in Ontario.

**RADIO
IMPACT**

Best 73s and Good Dxing
from the United Kingdom

Transmission Date. 24. 7. 80..

Frequency... 7325..... kHz

Transmitter Power... 15... watts

Type of Antenna... 5 WAVE DIP

Signature... Jell. Street... J.H.



Broadcasting Tropical La Voz de la Libertad

Planta y Est.: Balneario Colón (Lone Beach)
Apt. 244 - Telefonos 551 y 540
PUERTO PLATA, R. D.

VERIFICATION SIGNERS: Radio Araguaia 4905 Silvano Concalves Santos...Radio Juilaca 5017 Alfredo Araico Guevara, Director...Radio Atlántida 4790 Socorro Saavedra Angullo, Secretaria...Radio Veritas Asia 17790 Miss Larissa Paner Malinao...Radiodifusora Londrina 4815 Cesar Augusto Gomes...Radio Bare 4895 Ernesto Alberto Leite Barbosa...Radiodifusora de Uberlandia 3255 Carlos Roberto Calixto...Radio Iguatemi 3295 Lucia Maria Pissolatti da Silva...Radio Onda Imperial 5055 Alberto Barrionuevo S...KGEI 15280 Jess Elizondo.....via PLAY DX...Sam.

UKRAINIAN SSR: Radio Kiev 17850,15240,15100,7215,7205 and 7150. f/d "Pechersk Lavra" cd. in 6 mo.(Matthews-OH). 7150 f/d "State Historical Museum" cd. in 21 wks.(Hoffmann-NY). 7215 f/d "Park of Glory" cd. in 105 ds.(Fraser-MA). Radio Moscow 15445 via Simferopol f/d cd. in 31 ds.(Semesky-IN). same in 2 mo.(Reitz-KY).

URUGUAY: Radio El Espectador 11835 f/d cd. in 3 1/2 mo. for a SP rpt. and 2 IRCs. v/s Jorge Cubillo, Director Apoderado.(Mohr-NY).

USA: Radio Joy (7380?) cd. and ltr. in 1 wk. w/ 3 pennants. Card has Radio Joy written in EG, RS, FR, Greek and Phoenician!(Wallace-MA). Voice of Venus 7375 cd. in 1 mo. for ms. v/s Scott Wilde. QSL was actually a XMAS card w/ QSL statement.(Wallace-MA). Voice of the Pyramids 9330 f/d form ltr. #3 in 30 ds. for ms. via FRC.(Krueger-FL). Radio Quadro-relayed by Syncom Radio International 7415 f/d cd. in 18 ds. for 2 IRCs. v/s George Strong, DJ of Radio Quadro. Stickers rcvd.(Cucura-PA). Syncom 48 6250 "Sky-Lab" certificate in 2 mo. for an SASE to FRC. Many pennants rcvd!(Eckman-IL 6249 f/d pink and black diploma award card in 65 ds. for ms. v/s Chuck Felcher * Personal ltr. also rcvd.(Semesky-IN). Voice of the Lumpfish 7430 and 22290 f/d "Nude Cutie" erotica cd. in 24 ds.(Hoffman-PA). same in 3 wks.(Barto-CT). Radio Syncom 48 6278 diploma card in 51 ds.(Bares-CT)....This is getting like your section Glenn...Sam. KGEI 15280 cd. in 29 ds. for ms.(Briscoe-WA). WYFR 17845 f/d "Globe" cd. in 16 ds.(Hetzl-WI). WWV 5000 f/d cd. in 28 ds.(Eckman-IL). 15000 f/d "Chief Niwot" cd. in 10 ds.(Hetzl-WI). VOA Delano 21640 f/d cd. in 48 ds.(Eckman-IL). VOA Greenville 15150 f/d cd. in 13 ds.(Schlaugat-WI). 9670 cd. in 7 ds.(Schlaugat-WI).

USSR: Radio Moscow 11920 "Misha Bear" cd. and ltr. in 34 ds.(Dye-MO). 15140 f/d "Red Square" cd. in 2 1/2 mo.(Tangredi-NV). ltr. rcvd. in which it said that a QSL card was enclosed but no card - Oh, well (Zeichick-ME)...Sure you don't live in the Mid-West???.Sam.

VANUATU (New Hebrides): Radio Vanuatu 3945 f/d "Tam-Tam" cd. in 1 mo. * for 3 IRCs. v/s I.J. Irving.(Whitney-BC). 3945 and 7260 cd. in 31 ds. for 3 IRCs.(Mikell-IL).

VATICAN STATE: Radio Vatican 11845 f/d cd. in 54 ds.(Zeichick-ME). f/d "Studio" cd. in 23 ds.(Archer-NC).

VENEZUELA: Radio Yaracuy 4940 cd. in 4 mo. for a SP rpt.(Mikell-IL).

SEE YOU IN SEPTEMBER

RF
TéléDiffusion de France

RADIO ZARACAY
965 Kc ONDA LARGA 90 Mts ONDA MEDIA
SANTO DOMINGO DE LOS COLORADOS ECUADOR S. AMERICA
RADIO CANADA INTERNATIONAL

TRANS WORLD RADIO
COMMEMORATIVE QSL - DX LISTENERS' LOG
submitted by Paul Kowalski and Rowland Archer
F₂ LAYER
E LAYER
KTWR TRANSMITTERS TARGET AREAS
ENDORSEMENTS INCLUDED ON THIS QSL CONFIRMS THAT ONE OF THE FIRST FIVE DX LISTENERS' LOG PROGRAMS WAS HEARD.

Longford
Debbie Blosser
Alan Marshall
Winnie Whitmore
P.O. BOX CC
AGANA, GUAM

NEAD XO: The following people may be expected at this years outing: Bill Campbell, Brett Saylor, Jeff O'Donnell, Don Moore, Brian Cartwright, John Kapinos, Bob Wirrell, Al Plotnick, Bill Oliver, Bernie Johnston, Roly Desrosiers, Gerry Bishop, Dave Valko, Larry Cohen, Tom Farmerie, Dan Prisco, Ken Compton, Gregg Bares, Greg Peters, Jim Douglass, Vlad Cucura, Dave Twiggs, Jim Meehan, Wayne Davis, Peter Schipelliti, Steve Leite, Mark Zimarowski, Nick Pappas, C. Schauer, Charlie Hoffman, Al Zeichick, John Fisher, Frank Harrington, Dan Prisco, Walter Kunz, Steve Porter and dozens of others by Sept. 6th. Many of the above are bringing their families. I can only accept a few more people for the banquet on Sept. 6th at the Holiday Inn. If you are planning to attend, please contact me immediately.....Sam. Just to wet your appetite a bit we will have some brand new equipment at the HAP auction, VOA materials, Radio Condor International and Voice of Mann T-Shirts, nearly 100 other shirts, over 100 pennants, 1000s of stickers and decals, and 100s of other items. All of the quality material will be auctioned at the banquet. The remainder will be auctioned at the outing. For reservations write to me or call 1-203-589-0083.....Sam.

VENEZUELA: Ecoss del Torbes 4980 f/d ltr. in 60 ds. for a SP rpt. and 2 IRC Bumper sticker also rcvd. v/s G. Gonzalez Lovera. (Witte-CA)
Radio Maturin 5040 n/d "Antenna" cd. in 30 ds. for a SP rpt. and ms. v/s Carmelo Resplandor. (Hoffman-PA).

WEST IRIAN: Radio Republik Indonesia Fak-Fak n/d personal ltr. in IN rcvd. in 7 wks. for * an IN rpt. and ms. v/s Joyce Irawan. Power is 1 kw. (Lazarus-LA).

YEMEN, PEOPLES DEMOCRATIC REP: Democratic Yemen B/C Service 7190 p/d cd. in 4 mo. for a tape and an EG rpt. v/s M.S. Moosa. (Matthews-OH). pink "Antenna" cd. in 7½ mo. for an EG rpt. and 4 IRCs. This was after 2 follow-ups. (Onken-IL).

ZIMBABWE: Radio Zimbabwe (Rhodesia) 3396 cd. in 24 ds. for 3 IRCs. (Schanke-WI).

That's it for this month gang. We had 107 countries reported. That's not all that bad considering that it's the vacation season. Keep the reports coming in.....Sam.

NOTE: Mr. Hugh Brower... please send me your address. I've got some HAP items for you. There was no return address in your request....Sam.

To Bill... I agree very much with your comments about the Chinese regionals. Rich Eckman ... As far as I know NASWA does not embrace any QSL policy concerning the n/d cds. such as issued by the BBC and the Deutsche Welle. Personally, I count them as QSLs and I believe the majority of NASWAites do also; however, this is strictly an individual choice. Make your own decision on this matter....Sam.

NEW ENGLAND AREA DXers OUTING: Since this is the last page and I'm out of material I'm going to plug the outing and banquet again. Remember, it's scheduled for Sept. 6th and 7th in Watertown, CT. For reservations at the banquet you may write me or call 1-203-589-0083.

NOTE: Keep those QSLs coming in. We have over 2000 members in NASWA. Let's hear from all of you. Our club can only be successful with your contributions....Sam.



Mucho le agradecemos su atento reporte rogándole acepte esta tarjeta como una verificación.

Cordialmente.

Radio Salas

830 Kc.	9030 Kc.
Onda Larga.	Aparto Corta.
San Rafael 108.	Apartado 866.
Habana - Cuba.	

I WANT TO SEE YOU IN SEPT


73s

Sam

Pto. LIMON C.R.

1200 Kc. 5954 Kc.

D.L. RADIO O.G.



D-OZ-UAC

960 Kc.



S S

RADIO SAN SEBASTIAN



update

August 1980***Number 72

Tom Alleman
615 W. 43rd Terr., Apt. 6
Kansas City, MO 64111 USA
(816) 931-5943 0000-0300 GMT only!

UPCOMING DEADLINES: 10 August (Mid-August) 24 August (September) 10 September (Mid-Sept)

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

BRAZIL R. Tabajara, 4795, in PT 0830+; M anncr, canned ID, TC, and local mx. (Klein, FL)+++
R. Inconfidencia, 6000, in PT 2300-2345; MoR mx, clear reception. (Bart Kohler, OH 7-7)---
same, 2345-55 w/ guitar instrumentals, talk and ID by M. (Neal Perdue, AL)***Also being heard
here as late as 0100. tba***Ceara R. Clube, 6105, tentative in PT 0905-25; M anncr evangelizing
on and on and on to a crowd. No IDs. (Max Greenwood, PA)

CANADA CFRX Toronto, 6070, in EG 0709; M w/ end of nx, CFRB ID, into mx. (Klein, FL)+++CKZU
Vancouver, 6160, in EG 0830; M w/ headlines, CBC ID, mixed talk and mx format. (Klein, FL)+++
CKZN St. Johns, 6160, in EG 0832-0855 presumed; many mentions of St. Johns and TCs for GMT-
2 1/2 hours, weather sports, EzL mx such as "Yellowbird" and Nat King Cole tune. Unusable after
0855. (Greenwood, PA 7-6)

COLOMBIA R. Neiva, 4855, reactivated recently and noted w/ good sigs and usual Colombian
type pgms. Probably abt 5 kW now and sounds it. (Pitt McNeil, DC)---same at 0431 w/ ID/TC and
s/off at 0500-0510*. (Greenwood, PA)+++R. Super de Cali, 6085, in SP 0830; strong w/ IDs and
slogan: "la radio quietiene siempre algo bueno para ustedes." (Greenwood, PA)+++LV de la Selva,
6170, in SP 0950; nice local ballads, TC/ID combos. (Klein, FL)

CONGO Brazzaville thought to be the one on 15190 *0354-0425; drums to 0400, s/on w/ NA. MoR
FR songs to 0425. Couldn't get positive ID. Help! (Kohler, OH)***If my memory is correct, the
15190 outlet was used by them only during our mornings and afternoons. Still, what you describe
does sound like them and may very well be. Keep checking. tba

COSTA RICA R. Rumbo, 6075, in SP *1000; M anncr, canned ID, s/on anncmts, and into pop LA
vocals. (Klein, FL)

ECUADOR R. Federacion, 4960, in SP 0045-0100; non-stop EzL mx to 0100, talk and ID by M, then
into pop vocals. Very good and quite early. (Perdue, AL)

MALI Bamako, 4783, in FR *0600; harp IS to hour, NA, M anncr w/ s/on anncmts. (Klein, FL)---
Bamako also noted on 5995 in FR 2315-0020*; drums and occasional AR sounding mx. Off at 0020
w/ NA. (Kohler, OH 7-6)

MALTA IBRA Radio, 9510, in EG 2015-2115; gospel songs w/ prayers between every third song.
ID at 2114, QTH, too. Happy w/ this. (Ken Briscoe, IN)***Sure of freq, Ken? IRBA recently and
widely reported on 9505. tba***R. Meditteran, 9670, in EG 0720; W anncr, tourist features--art
museum, sights etc.--and light mx. (Klein FL)

NEW ZEALAND RNZ, 6105, in EG 0955-1005; best in a long time. Nx about severe storm and ID.
(Greenwood, PA)

NIGERIA Ibadan, 6050, in EG/verns 0535-50; tribal mx and EG ID 0545. (Greenwood, PA)

UAE RCTVDubai, 21700 nf, in EG 0200-10*; light instrumental mx and frequent IDs. Very strong.
Surprised to find it here at this time. (Perdue, AL)

VANUATU R. Vanautu, 7260, in EG 1010-30*; talks by M, mentions Vanautu, s/off w/ W choral NA.
(Greenwood)***Vanautu is the new name for Vila, New Hebrides. tba

VENEZUELA R. Frontera, 4760, in SP 0210-30; Colombian-sounding mx. Talk and ID by M 0230. Best
ever reception for me of this rare YV. (Perdue, AL)***R. Angostura, 6120, in SP 0930-50; mixing
w/ two other stns. ID 0935, upbeat LA mx and dramatic anncr. (Greenwood, PA)

YEMEN San'aa, 9780, in AR 0359-0410; positive ID as follows: drums, M w/ something like
"Acht-ta-ha-ba Yemeniaeh". Ar mx w/ flutes and 2d M w/ WRTH ID. (Greenwood, PA)

FROM THE MAILBAG: Had a nice card from Bill Whitacre the other day. He is currently lounging
in the Cook Is. after a sojourn in the Antipodes. He says DX has been good and that he can
hear Cook Is. regularly. HI. Hope to have more to pass along later.

A disappointing turnout this time. Hope you'll all be back on board for our third anniversary
issue next time. Until then,

Best of 73, Tom

log report

section

1600-4899



TERRY KRUEGER

- 2120H UNID LA harmonic 1030 f/out (Sbordone)
2310T BRAZIL R Progreso; 0029 PT, light mx (Moore)
2480T BRAZIL R Cl. Rondonopolis; 0035 PT M, local mx (Moore)
3205 BRAZIL R Riberao Preto; 0035-0125 PT vocals, ID/TC (Reitz, Sbordone)
3210 MOZAMBIQUE RM; PT 0412, lively Afro mx f w/ fading (Valko 6-25)
3245T VENEZUELA R Libertador; 0135-0215 SP M, light mx, futbol bulletin,
no ID or ment. of Venezuela so quite tentative (Moore 6-12)
3250 S.AFRICA Radio Five; 0435 EG IDs, pop mx, f (Valko)
3252 ECUADOR LV del Triunfo; 0415 SP, LA pops, ID/TC (Reitz)
3255.1 VENEZUELA LV del Tigre; 0210 SP, slow romantic M vocal, ID
(Novello 6-25)
3265T CONGO RTVC; 0515 FR M tlc into Afro mx 0517 (Bares)
3275 VENEZUELA R Mara; 1015/0015-0200 SP M ID/TC, SP pops, nx (Sbordone,
Reitz, J. Jones, Moore, Cucura, Holland)
3285 BELIZE RB; 0109-0340 EG ID, Correspondent's Reports, end of
baseball game (Holland, Sbordone)
3300 GUATEMALA R Cultural; 0115-0355 SP into EG religious pgming, ID
and gospel mx (Holland, Archer, Gliksmen)
3307.3 UNID poss. PT M 0425+ hyper M between vocal selections, best on
loop east (Novello 7-7)
3315 UNID 0403* not Pastaza. NA 0403. Not the HC NA, so rules them
out. Quite long. Most likely Brazil (WRTVH) (Valko 6-23)
3322 PAPUA NEW GUINEA R North Solomons; 0950-1000 PD M tlc and US
pops, "How Deep Is Your Love?" and ID (Cucura 6-21)
3325 ECUADOR Ondas Quevedenas; 0955 SP ID, local mx, TC, g (Sbordone)
3325 NIGERIA FRG-Lagos; 2050-2120 EG, ID 2100 in CW QRM (Glifford)
*3331 COMORO IS. R Comoros; 0326-0348 FR, most lively African mx w/ M
occasionally tlc in FR. Drums and singing very prominent,
CHU QRM. 3331 exactly (Valko 6-23) Hasn't made in this far
south yet... TK
3335 BRAZIL R Cl. Conquista; 0025-0140 PT talk, ID/TC, soft and pop
mx (Lang/Lentz, Reitz)
3380 MALAWI MEC; 0448 Afro mx, chanting, EG ID/TC, Chichewa nx, g
(Haddcliff) 0350 ID/TC as "6 o'clock", children singing, nx, amaz-
ingly strong; really impressed (Valko) Ben, please cut your logs
2 cm wide as I can't process anything smaller... TK
3385 PAPUA NEW GUINEA R E. New Britain; 0935 PD M, mx (Cucura)
3395 VENEZUELA R Universidad; 0205 SP ID, world nx (Holland)
3410VT BRAZIL R Educ. 6 de Agosto; 0215-0231 PT, instr mx, M ancor,
UTE QRM (Moore)
3480.7 BOLIVIA R Padilla; 0019-0130 Andean mx, guitars, SP W, ID and
ments of Bolivia and Padilla (Valko, Moore)
3525V BRAZIL R Transamazonica; 0231 PT ballads, M, f (Moore)
3880 USA (PIRATE); poss. WBLO 0604-0616 EG, instr mx, trumpet, accord-
ians sounding like Dixie Band or Mardi Gras type (Danko)
3905 ADMIRALTY IS. R Manus; 1055 PD, f in AROs (Sbordone)
3945 VANUATU RV; 0700-1000* FR M/lang, EG nx 0830 and ID as R Port
Vila, this station is strongest on band (Whitney) where you are...TK
3995 S. AFRICA R RSA; 0405 EG nx, cmtry, ID (Archer)
3995 GERMANY, W. DW; 0200 GM nx, ID, tlks (Holland)
4000 CAMEROON R Bafoussam; 0436-0500 Afro hiliife, drums and instr. mx,
long FR tlks, severe ARO QRM (Barto) 0455 EG nx (Bares)
*4003.2 USA (PIRATE) R Indiana; 0401-0407, 0502-0508 EG badly muffled
audio/RTTY QRM, many IDs, Jethro Tull "Living In the Past", f-p
(Rankin 7-4)
4525 GERMANY, E. DIZ; double and single time pulses, 5 kW, 0240 (Novello)
4680 ECUADOR R Mac. Espejo; 0330 SP echo ID, LA mx, whooping M singer
sounding like he was having a good time (Archer) 0903 (Holland)
4718V BOLIVIA R Abaroa; 0250-0330* musica romantica, SP M TCs, 0330
"Bridge Over River Kwai" off. Glenn Hauser made positive ID per
my tape; p (Greenwood) 0223 lite mx except TC 0230, ID 0300 (Moore)
0235 SP accordion mx (didn't know accordians could talk Neal... TK)
M ancor, ID 0240 as R Abaroa and as Abaroa R (Perdue)
4740VT BOLIVIA R Mamore; 0205 SP ballads, M, static (Moore)
4750 CAMEROON R Bertoua; 0500 EG/FR nx, drum beats, mx (Dlekman)
4755 COLOMBIA Ex. Nuevo Mundo; 0645 SP pops, ID/TC (Reitz)

- *4760RF VENEZUELA R Frontera; 1003-1020 SP "Aqui R Frontera" and martial mx, typical YV fare; 1030 f/out (J. Jones, Klein) 0140-0204 SP M ID/TC, poss. the "R Eranera" in May LR-A (Moore, Krueger) has been very irregular the past few weeks... TK
- 4764 UNID 0321-0340 in PT, several ballads and tlk in PT. Brazil mentd several times. Who's off freq? (Barto)
- 4765 ECUADOR CRE; 1040 ID, official notices (J. Jones) 0200 SP M&W chatter (Perdue) 0420 (Reitz)
- 4765 LIBERIA ELWA; *0700 IS, EG ID etc. into usual px, f (Klein)
- *4770 NIGERIA FRC-Kaduna; 0455 EG, Afro chanting, ID, vg (Klein) *0428 w/ rel. sounding theme, NA, ID, pgm notes, chanting, mx. Tnx Stu Klein for tip (Barto) *0430 s/on (Greenwood) 0524 EG (Bares)
- 4770 VENEZUELA R Bolivar; 0200 ID, SP ads, mx (Holland)
- 4775 BRAZIL R Cultura de Sergipe; 0013 PT, light mx, ads, ID (Moore)
- 4777 GABON RTVG; 2306-0005* Afro mx, FR M ID, nx (Wallace, Reitz, Valko) 0510 FR vy nice local mx, FR ID (Klein)
- 4785 BRAZIL R Ribamar; *0800 mellow melody, PT M ID, upbeat songs, (Greenwood)
- 4785 TANZANIA RT; 1755-1930 vernacs nx 1800, gong, ID (Clifford) where do you live, OM?... TK 0258 IS, SH M ID, NA, nx, mx (Reitz)
- 4790 PERU R Atlantida; 0345 SP, pop mx, ads, ID (Reitz)
- 4795 BOLIVIA R Nueva America; 0106 SP, f w/ M, ads, huaynos, ID/TC, some ballads (Moore) Klein)
- 4795 BRAZIL R Tabajara; 0735-0830 PT M ID, TC, ads, ballads (Greenwood/
- 4795 ECUADOR LV de las Garas; 0220-0440 LA ballads, ID (Perdue, Holland)
- 4802 ECUADOR R Pop. Indep.; 0430 SP, Andean mx, ID/TC (Reitz)
- 4820 ECUADOR R Paz y Bien; 0950 SP HC mx, M ID, tlk (Perdue)
- 4825 GUATEMALA R Mam; 0203 SP, marimba mx, (Moore)
- 4832 COSTA RICA R Relej; 0002-0600 SP, pops, nx, TC/ID (Johns, Holland)
- 4835 BRAZIL R Nac. de Boa Vista; *0858 IDs, PT TCs, tlk (Barto) 0030-0500, ID, PT mx, mixing w/ SABC (Moore)
- 4845 S. AFRICA SABC; 0435 EG nx, ID/TC 0446 Relej QRM (Bares)
- 4845 BOLIVIA R Fides; SP 0103, tuned in just in time to hear "en transmission, R Fides" and instr. mx (Moore)
- 4845 COLOMBIA R Bucaramanga; 0225-0401* ID, mx, ads (Moore, Brouillette)
- 4850 CAMEROON RN; 0500 FR/EG, pop and local mx, TC (Reynolds, Valko, Klein)
- 4850 SURINAM R SRS; 0000-0405 EG/DT DJ, pop mx, ID, EZL mx, nx (Lang/Lentz, Archer, Valko)
- 4855RF COLOMBIA R Nieva; TC/IDs, ads, back on after long absence (J. Jones)
- 4865 PERU R Chinchaycocha; 0440 SP, hi-Andes stuff, ID/TC (Klein)
- 4865 COLOMBIA LV del Cinaruco; SP ID/TCs, LA pops (Reitz) *0907 NA, M SP opening armts and 8 or 10 IDs, vg (Perdue)
- 4870 BENIN LVdlr; 0600 FR ID, political tlks, hlife (Reitz)
- 4870 ECUADOR R Rio Amazonas; 0230 SP ID, folk mx, M (Reitz)
- 4875 COLOMBIA LV del Norte; 0945 IDs, ranchera mx pgm (Perdue) 0500* w/ NA choral version (Greenwood, Jordan)
- 4875 BRAZIL R Acreana; PT 0755-0906, pops, IDs, ads (Gliksman, Klein)
- 4885 COLOMBIA Ondas del Meta; 0849 ballads, SP ID (Holland) 0430 ID, romantic ballads, also IDing as R Centro Popular (Greenwood)
- 4890 UNID 0400* can't crack ID, was "Radio Vay-see-tee-tah, Sao Paulo (something) Cumbra?"... (Greenwood) Suggest H-C-V-3 R Centinela del Sur, Loja as phonetics fit... TK
- 4890 HONDURAS R Lux; 0130-0300* LA ballads and TC/IDs, s/off (Pyatt, Reitz, Holland)
- 4890 PAPUA NEW GUINEA NBC; 0800-1045 EG nx, Yamaha ads, wx, pop mx and TC/IDs by M DJ (Shaver, Johns, Cucura, Holland)
- 4895 BRAZIL R Bare; 0805 FT M w/ full ID, presume 0800 s/on -- to PT MOR mx, M, g (Klein)

Late item from Stu Klein: 3375 BRAZIL R Nacional de Sao Gabriel showing at 0915 in PT with IDs 0920 and 0940 between accordion fare. Strongest thing on at the time.

COPY-73,
7/14/80

log report section

4900-6199



STEVEN WISEBLOOD

- 4900 VENEZUELA R. Juventud: 0057-0330 US rock mx, SP anmts. Xlnt(Hart-W. AUS,Cronin,Holland)
- 4905 BRAZIL R. Reloj Federal: 0028-0125 PT nx anmts by M&W, time pips every minute, ID's, heard here in W. AUSTRALIA for the first time! (Hart-W. AUS, Reitz-KY)
- 4905 BRAZIL R. Araguaia: 0810-0820 Brazilian "ranchera" type mx w/rooster crows & occasional "yips", lively PT mx, lots of PT tlk, many mentions of Araguaia (Barto, Greenwood-PA).
- 4910 GUINEA R. Nationale: 0545 chants by M, tlk by M in FR, ID (Reitz-KY)
- 4915 GHANA GBC-1 Accra: *0530-0615 drum IS. chorus anthem, M in vernaculars w/amnts, W in lang w/Afro mx pgn, vocal tribal mx, EG nx @ 0600, ID (Archer 6/14, Reitz-KY).
- 4915 BRAZIL Rdif Macapa: 0045 Brazilian mx, M in PT w/ID & TC (Reitz-KY) 0837 PT anmts(Holland)
- 4915 KENYA VoK: 0257-0320 Flute IS, NA sung by chorus, tlk by M in SH, lcl mx (Reitz-KY).
- 4920 ECUADOR R. Quito: 0400-0428 Lam pop mx, ID, SP anmts,"La Voz de la Capital"(Whitney, /
- 4920 AUSTRALIA ABC-Brisbane: 1045-1200 M in EG w/nx, ID, pop mx(Johns, Reitz). (Holland)
- 4930 DOMINICAN REPUBLIC R. Mil: 2351-0200 fast tlk by M in SP, ID's, Lam pop mx, vocal ballads, US rock oldies, EZ listening instrumental mx (Gliksman, Conover, Lang/Lentz, Valko 6/30).
- 4930 VENEZUELA La Voz de la Fe: 0058 Lam mx, ID's, M ancr in SP w/tlk(Hart-W. AUSTRALIA).
- 4935.8 PERU R. Tropical: 0435-0503* ID's, Lam mx, M ancr after each song, NA (Greenwood,Reitz).
- 4940 IVORY COAST Abidjan: 2250 tlk by M&W in FR, FR pop mx, ID (Reitz-KY). (Cucura/
- 4940 VENEZUELA R. Yaracuy: 2325-0359* Lam pop ballads, ID, SP anmts, NA(Hart-W. AUS,Holland, /
- 4945 COLOMBIA R. Colosal: 0206-0725 tlk by M in SP w/echo, Lam mx, ID's(Diekman,Valko,Holland).
- 4952.5 PERU R. Madre de Dios: 0047-0105 guitar mx, ballads, instrumental mx, clear ID's @ 0100, This stn has been audible for several weeks nearly every night @ around 0000+ (Barto-CT).
- 4960 ECUADOR 0130-0415 LA ballads, M ancr in SP, Ecuadorian mx, ID's, TC, soccer game, very good after Sucre S/off @ 0400*, ads (Klein 6/25, Reitz-KY, Pdue).
- 4965 COLOMBIA R. Sta Fe: 0310 Lam mx, ID (Holland-NY). 0917-0927 Lam mx, ID's(Cucura 6/21).
- 4970 VENEZUELA R. Rumbos: 0050-0418 Lam mx, drama pgn w/actors in SP, ID's, ads, //9660, in well as usual here in Western Australia (Hart-W. AUS, Holland-NY, Cucura-PA).
- 4975 COLOMBIA Ondas del Ortopedico: *1010 ID, NA, chimes, well above the UTE, Good (Jones-MS).
- 4980 VENEZUELA Ecos del Torbes: 0016 Lam pop mx, ads for GM cars, ID, SP anmts (Holland-NYO).
- 4985 BRAZIL R. Brasil Central: 0057-0115 tlk by M in PT, lcl pop mx, ads, TC's, fast ID's, Vocal ballads. Vy Good (Jones-MS, Gliksman, Reitz-KY). 0836 guitar mx, ID's, QRN (Holland).
- 4990 VENEZUELA R. Barquisimeto: 0000-0026 Lam pop mx, ads, ID's, M ancr in SP(Holland,Alexander)
- 4990 SOUTH AFRICA RSA: 0708 M in EG w/world nx, Poor-Pair (Moman-Alberta 6/4).
- 4990 NIGERIA Lagos: 0410 EG tlk, ancr sounds like he was BBC trained!, pop mx, VG (Klein-FL).
- 5005 EQUATORIAL GUINEA LV del Rio Muni: 0450-0515 M ancr in SP, lively Afro mx(Valko,Reitz).
- 5010 CAMEROON Garoua: 0515 lcl chanting in vernaculars, drums, M ancr in vern., ID in FR(Klein)
- 5015 COLOMBIA R. Surcolombiana: 0349-0402* ID's, EZ listening mx, NA & S/off (Valko 7/4).
- 5015 BRAZIL R. Cultura Cuiba: 0800-0805 Nice local samba mx, ID's by an idiot using a reverb mike, ads, lcl anmts by M in PT, Good (Sbordone-FL, Klein-FL). Sbordone's UnID.ScW
- 5020 COLOMBIA Ecos del Atrato: 0015-0345 long tlk by M in SP, ID, Lam mx, ID,TC(Klein,Reitz).
- 5020 SOLOMON ISLANDS SIBC: 1000-1115 ID by W in EG, R. Australia nx on the hour, lcl island mx, US pop mx, one Japanese pop song, M ancr in EG, TC (Johns-TN, Jones-MS, Reitz-KY,Sbordone).
- 5020 UNID 0930 nonstop US pop mx & Lam pop mx, M ancr in EG, some SP tlks, ID & nx on the hour & at the half-hour, possible ID as R. Europe(Holland-NY 6/17). Suspect this is Solomons, you probably mistook pidgin anmts for SP, and Lam mx for island pop mx-ScW
- 5025 BRAZIL R. Borborema: 2352-0215 Lite Brazilian pop mx, ID, ads, jingles(Hart-W.AUS,Reitz).
- 5026***UGANDA R. Uganda: 2030-2055* Afro mx w/M ancr in vernaculars, ID's, announced in EG the closing of 576KHz & 639KHz, NA & S/off (Clifford-W. GERMANY 6/21). 0340-0400 Afro vocals, mention of Uganda @ 0342. Very Strong w/clear ID @ 0400 (Barto-CT).
- 5030 VENEZUELA R. Reloj Continentes: 0115-0300 upbeat Lam mx, M ancr in SP, ID,TC, ads(4 rpters).
- 5035 BRAZIL R. Aparecida: 2355-0058 EZ1 mx, lcl pop mx, PT anmts, ID (Hart-W.AUS,Holland,Reitz)
- 5040 VENEZUELA R. Maturin: 0215 Lam mx, ID's, TC's, jingles, stn promo's (Reitz-KY). *0911 large choral NA, martial mx, "My Buenos Dias...", calls, fays., ID (Jones-MS 6/18).
- 5045 BRAZIL R. Cult do Para: 0040-0230 lcl pop mx, ID, PT anmts. Pair(Hart-W. AUS, Lang/Lentz).
- 5045 UNID 0716 extremely weak signal, M in language, some vocal mx(Radcliff-IL). Brazil is unlikely at this early hour, Cook Islands fares much better!-ScW
- 5045 CUBA RWS-Habana relay(?):*1000-1100 World Service nx & cmtry in EG, spot on the Olympics, audio quality very poor with a roaring sound in the carrier, modulation is low and very compressed. At 1020 they switched over to "The Voice of Cuba", an EG pgn resembling R. Habana, Meanwhile on 9600, which began with the Voice of Cuba, switched over to RWS. As far as I could tell 600kHz stayed with The Voice of Cuba pgn thruout, At 1100 resumed RWS //9600, 600, but 5045 cut off at 1102* (Hauser-TN, Jones-MS, Klein-FL). Nice Work!-ScW
- 5047 TOGO RT: 2315 M ancr in FR, accordion mx, afro chanting, ID (Wallace-MA). 0535-0540 lcl Afro mx, M ancr in FR, ID (Reitz-KY, Alexander 7/7).

- 5050 PERU R. Loreto: M ancr in SP, Peruvian mx, best Peruvian morning in a long time (Hart-W.AUS)
- 5055 COSTA RICA TIFC-Faro del Caribe: 0100-0400* EG religious pgms, gospel mx (Johns, Alexander).
- 5061 ECUADOR R. Nacional Progreso: 0250-0340 Andean mx, S/off anmts in SP, NA (Holland, Reitz).
- 5075 COLOMBIA R. Sutatenza: 2350 Lam mx, ads, ID, M ancr in SP (Alexander 6/23). 1010 (Holland)
- 5095 COLOMBIA R. Sutatenza: 0120 tlk by W in SP, ID, ads, Lam mx (Conover). 0940 SP tlk (Holland)
- 5265 CHINA FPBS-1: W in CH w/tlk, Fair (Sbordone 7/5).
- 5881 ARGENTINA R. Rivadavia: 2258 futbol scores, cmtry on soccer in the US, ID @ 2303, into SP nx (Meyer-PERU). 0014-0033 Fast tiking M in SP w/sports results. Vy. Strong (Valko).
- 5900 USSR Petropavlovsk RWS: 1125 usual pgms in EG, ID (Sbordone 7/5).
- 5945 AUSTRIA ORP: 0144-0155 EG nx and cmtry, "Report from Austria" (Reynolds, Brouillette 7/8). 0730-0735 M in EG w/nx, W in EG w/preview of upcoming pgms (Valko 6/25).
- 5950 GUYANA GBS: 2050-0100 M ancr in EG w/musical request pgm. M difficult to understand because of African-type accent, hindi mx, Fair (Hart-W. AUSTRALIA, Wallace-MA). *0725 EZ listening mx, US pop mx, hindi mx, guitar ballads, the "Morning Show", IS is a guitar melody repeated over and over. S/on anmts in EG, Xlnt level (5 reporters).
- 5954 COSTA RICA R. Casino: 0445-0602* M ancr in EG w/tlk on Lam orchestra's, ID's, TC's, US & Lam pop mx, EZ1 classical type mx, ID's as "T-I-Q, R. Casino" (Diekman, Reitz).
- 5955 COLOMBIA LV de los Centauros: *0934 NA, ID, calls, fays. Vy. Good (Jones-MS 6/25).
- 5960 CANADA RCI: *0000-0029* EG "LX Digest". EDXC Conference, good //9755 (Fraser-MA).
- 5965 CUBA RHC: 0923 polka type mx, nx read by M in PT, ID @ 0958* (Radcliff-IL 6/20). (Reitz/
- 5965 BRAZIL R. Guariba: 0015-0108 Jazz, instrumental mx, US pop mx, ID & QTH (Gliksmann, Radcliff, /
- 5970 PERU R. El Sol: 0418 tlk by M in SP, Lam pop mx, ID's, "Bonanza" theme (Radcliff-IL). 1033 ID, TC for GMT-5, usual Lam pop mx. Good (Jones-MS 6/26).
- 5980 SIERRA LEONE SIBS: 2310-2322 M in EG w/ID, brief anmts, Afro mx, US pop mx (Valko 6/30). *0600-0700 ID, beer ads, TC, prayer, religious pgm, US pop mx, BEC-nx @ 0700 (4 reporters).
- 5980 SOUTH AFRICA R. RSA: *0200 S/on anmts in EG, fays, EG world nx (Hart-W. AUS). 0340-0346 European & US pop mx, "Music Magazine", //3995, 4990 (Earhart-PA).
- 5980 GUATEMALA TGMIA-All Union Radio: 0448 "Quiet Hour" pgm, full ID, address, NA (Eckman 7/3)
- 5985 BURMA BBS: 1359-1500 M&W in tonal language (like CH), possible ID by W, gongs (Whitney).
- 5985 MEXICO XERMX: 0239-0449 "La Hora Nacional". M ancr in SP, closing anmts to 0510*, ID's, fays., "Musica Mexicana", Good-Vy. Good (Hart-W. AUSTRALIA, Jones-MS).
- 5985 ARGENTINA R. Splendid: tlk by M in SP 0015, ID @ 0030 (Lang 6/12).
- 5990 BRAZIL R. MEC Rio: 0030 PT tlk, orchestral mx, ID, PT anmts, to 0300* (Behr 6/18).
- 5995 AUSTRALIA RA: 0735 M ancr w/World nx in EG, ID. Good (Holland-NY).
- 5995 MALI R. Nationale: 2330 ID, M ancr w/FR tlk, Afro high-life mx (Reitz-KY).
- 6000 BRAZIL R. Inconfidencia: 2345-0258* EZ listening instrumental mx, bouncy Brazilian mx, lol pop mx, romantic vocals & tango's, ads, PT anmts, Erief S/off anmt (Brouillette, Valkp).
- 6005 CANADA CFRX-Montreal: 2348 US pop mx, EG anmts. Fair (Valko 6/30). 1020 Pop mx, sports, in like a local (Holland-NY). 143--1456 EG discussion on alimony, ads F-G (Reynolds 7/4).
- 6006 COSTA RICA Reloj: 0559-1033 Lam pop mx, SP anmts, ID, TC's (Holland-NY, D'Angelo-PA).
- 6010 PERU R. America: 0400-0413 futbol coverage in SP, ID @ 0412, few ads. P (Cooper-CA).
- 6012 ANTARCTICA AFAN: 1040 pop songs & ID's to 1200 f/out, heard daily during late June, heard on reduced carrier USB - a form of AM, low modulation. Best ever on 6/25 (Behr-ONT.)
- 6015 COLOMBIA R. Mira: 0824 lel mx, pop Lam mx, ID @ 0841. Fair (Radcliff 6/18).
- 6015 VATICAN STATE VR: *0059 EG nx on African hunger, into FR @ 0114 (Lang 6/14).
- 6020 INDIA AIR-Delhi: 0145 EG nx items, Excellent at this time with an incredible amount of Indian regionals on the band so late in the morning. What a treat!!! (Hart-W. AUSTRALIA).
- 6025 NIGERIA FRC-Erugu: 2230-2305* C&W mx, ID, TC, EG nx, Pledge of Allegiance (Reitz-KY).
- 6035 BRAZIL R. Globo: 0032-0105 futbol game play by play. ID's, sirens, brief newscast @ 0100 in PT, Brazilian pop mx, many ads (Reitz-KY, Gliksmann 6/9)
- 6035 BOLIVIA R. Panamericana: 0028-0136* M in SP w/World nx, piano mx, promo for Abba LF, reverb ID, SP anmts, now apparently on Sat. nites only, absent other days. Frequency measured at 6074.3 causing a het to Brazil (Behr-ON, Radcliff-IL, Novello NY).
- 6040 COLOMBIA LV del Tolima: 1005 Lam mx, ID and ads to 1045 f/out. Strong this day (Behr 6/25)
- 6045 AUSTRALIA RA-Lyndhurst: 1028 heard w/HCBJ QRM, pop mx. Very Poor, ID (Holland-NY).
- 6050 NIGERIA FRC-Ibadan: 2245 tlk by W in Vernaculars, Afro mx & no ID (Reitz-KY). 0503 M in EG w/African news items, several mentions of Nigeria but no ID, bad QRN (Radcliff-IL):
- 6050 ECUADOR HCJB: 1034 NA, ID, into religious pgm in SP (Holland-NY 6/7).
- 6055 PERU R. Continental: 0720-0755 ancient US rock mx, M ancr in SP. P-F w/bad QRN (Sbordone).
- 6060 ARGENTINA R. Nacional: 0755-0905 M ancr in SP w/tlk over guitar mx, ID, TC, nice local mx, into M ancrs in SP w/nx. Fair-Good (Klein-FL 6/25, Jones-MS 6/10).
- 6065 USA R. Clandestine: 0716-0733* Rook mx, frequent ID's, claiming to be in International waters, pgm featuring "Kinko the clown", host RF Burns. Xlnt-Plse QSL! (Ben Radcliff-IL).
- 6065 COLOMBIA R. Super: 0742 Clsel Colombian mx, ID (Holland-NY 6/3).
- 6065 CANADA RCI-Northern Svce: 1040 C&W mx, sports tlk, ID (Holland-NY 6/7).
- 6070 ECUADOR HCJB-Quito: 0930-1000 Cmtry in GM (Bolland 6/18). 1025 gospel pgm in PT (Holland).
- 6070 CANADA CFRX-Toronto: 2145 EZ1 mx, ID's, ads lel wx (Reitz-KY). 0750 night talk show, Fair-Good (Klein 6/25). 1054 EZ1 mx, wx, ID (Holland-NY). 1328 ads, PSA, wx, EG nx (Conover)
- 6075 UNID 1545 nonstop afro mx, no ID's or tlk. Only heard this night (Hart W.AUS).
- 6076 COSTA RICA R. Rumbo: 0402 ID's, TC's, ballads, ads. Strong (Moore 6/13). 1020-1038 lots of Lam mx, ID's, SP anmts (Valko 6/7).
- 6081.7 BOLIVIA R 21 de Diciembre: 0040 Lam pop mx, full SP ID, one of the best Bolivians on 49m, heard to 0100* on Sun., to 0200* other days. Power increased? (Behr 6/16).

- 6085.5 COLOMBIA R. Super de Cali: 0735-0955 M ancr in SP w/ID, TC, ballads, stn promo's, fanfares for the "Super" net, Lam folk mx. Destroyed by DW S/on @ 0955 (Behr, Klein, Jones-MS).
- 6088.7 COLOMBIA Ondas del Darien: 1013 anthem, M ancr in SP, Lam mx (Behr 7/1). (Cunningham, 6090)
- 6090 BOLIVIA R. Stentor: 1004 M ancr in SP, ID, brief nx (Radcliff).
- 6100 MALTA Cyclops- DW: 2258 tlk by M in PT, into SP after 2300. (Holland-NY).
- 6104 COSTA RICA R. Universidad: 0435-0500* Disco vocal mx, S/off w/"Battle-Hymn of the Republic". Good (Pyatt-GA 7/4).
- 6105 MEXICO Su Pantera: 0420 Disco mx, ID by M ancr @ 0442 (Radcliff-IL 6/18).
- 6105 NEW ZEALAND RNZ: 1003-1030* lel nx in EG, ID, radio drama, discussion w/interlude mx that sounded like a musical saw, M in EG w/ID's & S/off amnts (Cunningham, Radcliff, Holland)
- 6110*** INDIA Srinagar: 0140 M&W ancrs in Hindi or a similiar Indian dialect, F (Hart-W. AUS 6/15)
- 6115 COLOMBIA La Voz del Llano: 0748-1027 Colombian folk mx, ID, TC. G (Holland, Lang/Lentz).
- 6120 VENEZUELA R. Angostura: 0950 ID & TC after long ad string. Fair-Good (Jones-MS 7/8).
- 6120.3 NICARAGUA R. Zinicca: *1058 long anthem, ID & Ranchera mx (Behr 6/30).
- 6125 BRAZIL R. Globo Sao Paulo: 0800M ancr w/calls, ID's, fqs., Brazilian pops (Klein-FL).
- 6130 ECUADOR HCJB: 0750 Religious pgms in EG, ID (Holland-NY).
- 6135 TAHITI FR3: 0745 Nice island style mx pgm, W ancr in FR. Poor but readable (Klein-FL).
- 6140 USA R. Clandestine: 2208-2222 f/out Quiz show parody, ID's, Rock mx (D'Angelo-PA).
- 6150 COLOMBIA LV de Huila: 0752 Lam mx, TC, ID (Holland-NY).
- 6154.6 UNID Unmodulated carrier noted going off the air @ 0140:28 instead of 0100-0115 (Potter).
- 6160 UNID constant Afro mx similiar to the UnID on 6075 @ 2340. A test Bdct? (Hart-W. AUS)
- 6160 COLOMBIA Emis Nueva Granada: 0515-0920 Lam pop mx, folk mx, M ancr in SP w/ID's, TC's, network promo's (Reitz-KY, Lang 6/14, Holland-NY).
- 6165 SWITZERLAND SRI: 2237 tlk in GM, Swiss Country-folk instrumental mx. Poor (Holland-NY).
- 6165 BRAZIL R. Cultura Sao Paulo: 0005-0022 EZL instrumental mx, tlk by M&W in PT (Lang).
- 6170 COLOMBIA LV de la Selva: *0915-0918 ID, calls, QTH, NA, S/on amnts, nx (Klein, Jones-MS).
- 6180 VENEZUELA R. Turismo: *0937 NA, ID, fqs., Lam mx. Very Good (Jones-MS 6/20).
- 6180 GUATEMALA R. Nacional: 0835-1015 SP tlk by M&W, Marimba mx, ID's (Hart-W. AUS, Valko).
- 6185 BRAZIL R. Bandeirantes: 0140 M ancr in PT, ID's, lel mx (Hart-W. AUS 6/20).
- 6187.6 WEST IRIAN Manokwari: 1115 IN tlk, 1125 lel mx to 1200 f/out (Behr 6/25).
- 6195 NIGERIA FRC-Sokoto: 0510 Afro pop mx, ads, ID's, TC's, poor modulation (Moore 6/14).
- 6195 CANADA CBC-NS: 0508* M ancr in EG w/ID, S/off amnts, NA. Xlnt
- A few more reports than last month, thanks to Hart-W. AUSTRALIA & Holland-NY. Propagation conditions fairly good on 49m but poor-fair on 60m. August should start to show some good Asian mornings for West Coast DXers. Check 60m at around sunrise. CUN30 73's etc
-

FOR SALE: Yaesu FRG-7000 modified by Radio West with 2.9 kHz Collins mechanical filter, switchable AGC, front panel antenna switch, optional 12 volts DC operation. Mint condition. I pay UPS in original carton. Price \$475.00. John Hall, 341 Herma Court, San Leandro, CA 94577. Phone (415) 569-5891 from 8:00 pm to 10:00 pm PDT.

WANTED: Any edition of RADIO SPECTRUM HANDBOOK by James N. Moore. Write with price and condition. Mike Hardester, 574 Deer Springs Road, San Marcos, CA 92069.

FOR SALE: Panasonic RF-2800 for \$190.00 and Mizuho SX-59 preselector for \$65.00. Both for \$240.00 with manuals. Both in excellent condition. Heard 135 countries with this setup. Walter Dittrich, 85 Meigs Drive, Shalimar, FL 32579. Phone (904) 651-1347. No collect calls, please.

FOR SALE: SSR-1 receiver in excellent condition. Price \$175.00, shipping paid. Wallace Johnson, RR #1, Dent, MN 56528.

FOR SALE: Drake R7/DR7, noise blanker, selectivity filters 6000, 2300, 1800, 500, and 300 Hertz, with service manual. Costs about \$1800.00 new, this one is almost new for \$1150.00. George Sherman, Box 2284, Minneapolis, MN 55402. Prepaid calls only to (612) 588-2618

log report *section* **C**

6200-11699

PETER SCHIPELLTI

31 BEAVERBROOK ROAD BURLINGTON, MASS 01803 or phone after 2200 GMT up until 0400 GMT.
617 272-3142. I hope that everyone had a great time at ANARC'80!

- 6207.5 W. IRIAN. RRI Bisk; 1040 Pac. island Mx (same as on PNG stns), 1100 Tlk & Mx, 1131 SCI & IN Mx? (Behr 6/25)
- 6215 ANDORRA AWR; *1830-2200* EG, quiet hour pgm to 1900 (gave freq. as 6220) into Mx of Faith show, asked for reports. Swedish at 2200 (Clifford- West Germany 6/15)
- 6232 USA-Bootleg Ram Radio; 0625 EG, Pomp Rock selections, ID & Freq. by OM between each. Faded at 0700 (Novello 6/29); 0638-0804* EG, For about an hour and twenty minutes played rock Mx (Punk Rock)?, Each song was followed by an ID by male, "This is Ram Radio Transmitting on 6232 KHz." Fellow DX'er Tom Haskett came over and listened to my tape. After one particular ID we both heard the word "Chicago". Tom says he heard the phrase "from Chicago", but I've played this section of the tape over and over and could only hear "Chicago". So location is very tentative. Also had technical difficulties during the last 15 minutes of the broadcast. A humming noise came on the air for 5 minutes then cleared. Heard the announcer say, "Hello Test, hello test... Can you hear me Ron... Testing, testing 1,2, 3..." etc. Poor w/ QRN (Semesky 6/29)
- 6235 NETHERLANDS Radio Venus-Pirate; *1445-1500* EG, British, US, GM, DT Rock, country. ID as international test xmsn from southern Netherlands. (Clifford- West Germany 6/29)
- 6240 USA-Bootleg Voice of the Pyramids; 0410-0420* EG, ID 0411 w/ possible address. 0412 Mx "Smoke on the Water" then ID by man. 0420* (Rankin 7/6); ID's and schedule w/ soft spoken anncr giving many freqs? One I believe was 11640 and another in the low 60 mb. Into "Smoke on the Water". Hvy QRN, mentioned FRC. s/off w/ mention of 9330 KHz at 0500 GMT. (Valko 7/6):: *0500-0515* Rock Mx by Queen (Wallace 6/22); 0438-0502* EG, Played Mx by Boston, IDs, Fair (Semesky 6/21); 0455-0515 (Fisher 6/22)
- 6280 USA-Bootleg R. Telstar; 0215-0400* EG, El Mx, George Carlin material. Asked for phone calls. Fair to poor w/ frequent breaks in the transmission. At 0400 moved to 7400 and relayed Radio Quadro (anncd as Euro pirate) (D'Angelo 6/29)
- 6550 LEBANON Voice of Lebanon; *1745-1935* FR/EG/AR FR Mx @ 1800, EG Mx @ 1815, back to AR pgm @ 1835. ID sounds like "Voice of Lebanon, the Voice of Freedom & Dignity" (Clifford 6/17)
- 6955 USA-Bootleg WONS; 0129-0130* EG, just caught s/off w/ ID loop # and "A little secret." "Good bye and its been fun". Lucky catch. Couldn't catch loop # (--- 9979)(Valko 7/5)
- 6975A USA-Bootleg R. Indiana; presumed test 0307 EG, "This is R. Indiana, the voice of Indiana" phone # as ???-766-9979. pssble mention of FRC. (Valko 7/5)
- 7090V CLANDESTINE R. Libertad Cubana; 0102 SP Tlk & IDs, 0127 called 'Atencion' Fair with QRN. (Behr 6/12)
- 7091 CLANDESTINE R. Libertad Cubana; 0106-0125 SP, NA, ID by M, military band Mx then usual exhortations about "revolucionario d'el pueblo de Cuba", "libertad", and comments about "la gobierno de America" and "des Estados Unidos" Usual distorted audio, but not as bad as LV de Junta Patriotica Cubana (q.v.). Occasional jamming(?) from RTTY-like tx, otherwise good signal till lost in QRN 0125. (Cunningham 6/24)
- 7115 ZAIRE Bandundu; 1435, always in in Perth at this time -- Recent pop hits w/ many IDs. An interesting station to listen to. (Hart-AUSTRALIA 6/19)
- 7125 GUINEA Radiodiffusion Nationale; 0105 Vernaculars, Good w/ presumed Nx, not FR. No 15311 or 9648 in at this time. (Hart-AUSTRALIA 6/20)
- 7145 NIGERIA R. Kwara; 0434-0452 EG ID, lang?, Drum IS, African Mx & singing (Valko 6/27)
- 7170 NEW CALEDONIA R. Noumea; 0940 FR, Tlks, pop Mx, ID, QRN. (Holland 6/17)
- 7215 IVORY COAST RTVI; 2237 FR, tlk by OM & YL, guitar Mx w/ singing by YL. (Valko 7/2)
- 7225 TUNISIA RTT; 0443 FR, AR chants & OM anncr w/ ID @ 0448 per WRTH. g-f (Wallace 7/4) (Archer 6/15)
- 7250NF MONACO TWR; 0344-0350 GM, Mx Box IS, rel pgm, adj ARO QRM (Buer 6/7)
- 7255 NIGERIA Voice of Nigeria; *0455-0511 EG, ARO QRM (John 6/21)(Shaver 6/11)
- 7260 NEW HEBRIDES R. Vila; 0831 EG, Nx, many mentions of New Hebrides, heard Vanuatu once Nx till 0849 then FR? (Woman 6/4)(Cunningham 6/11)(Lang 6/27) The independence of New Hebrides has been postponed until July 30'th. The name of Radio Vanuatu will probably take full effect then. ps.
- 7270 POLAND Polish R.; 0150-0205 EG, EZ Mx, IS, ID at 0159 EG Mx at 0200. (Lang 6/25) (Holland 6/1)
- 7325 GREAT BRITAIN BBC; 0330 EG, One doesn't think of the BBC as a weather station, but during the Trans-Atlantic Yacht Race (I'm not sure when it finishes, a la Hong Kong, BBC WS has a special xmsn nightly at 0330-0345 w/ detailed Wx info and short messages. annod //3995. 7325 normally 0330* (Hauser 6/20)

- 7345 CZECHOSLOVAKIA R. Prague; *0100-0157* EG, Nk, Cmnty "Life in Socialist Countries",
 DX Chat //79740, 11990 (Fraser 6/13); 0300-0350 EG (Johns 6/21)
- 7354.7 USA-Bootleg Radio VCR; 0337-0358* EG "The Spy Who Loved Me" sung by Carly Simon,
 other songs. Long taped ID at 0356. Anncd 7355 and an output of 25 watts. Much strong-
 er than either Voice of Pyramids or R. Indians. (Rankin 7/12)
- 7360.6 CLANDESTINE R. Abdala; 0307-0325 SP, Anti-Castro pgm & Cuban Mx. Much slicker
 presentation than 'Junta patriótica'. Freq. IDs (Rankin 7/4)
- 7370 USA-Bootleg Radio Joy; 1909 EG, Moved to 7370 because of RTTY 7380. Lousy Mod for
 Mx, voice OK. Usual Mx but new Mx for IDs, Not heard since revd QSL. (Wallace 6/10)
- 7400 CLANDESTINE LV De la Junta Patriótica Cubana; SP 0304-0336, IA & Marimba Mx w/ IDs
 and M giving freqs. Echo type audio. 6 bells at 0332. Fast IDs. heard practically
 daily (Valko 6/15); 0326-0350* SP, Lively Lam folk/pop Mx, shouted exhortations &
 choral Mx, March Mx, IDs 0330, 0338 & 0349 as "Attention Cuba...La Voz de la Junta
 Patriótica Cubana...7400 KHz en la banda de hl metros." As reported in June LN
 distorted audio makes for impossible copy. Sure sounds like a clone of Libertad/Rebelde
 /Abdala! Heard agn 6/28, w/ same pgm time but w/ 2 clear IDs as "IV de la Patriótica
 Cubana," which as far as I know, isn't even good SP! What's going here? (Cunningham 6/
 15): 0205 SP, seems fairly regular on 7400v, noted 6/20 at 0205 w/ ID to Dvorak Mx,
 at 0216 clear ID and sounding as if signing off, plugging another pgm at 11PM "Ventana
 al Mundo" at 0219 after march Mx, audio cut abruptly, but carrier stayed on w/ some
 other weak audio, gradually stronger. (Hauser 6/20): 0330-0345 SP, Tlks & Cuban Mx,
 same march Mx every 3 minutes w/ ID (Diekman 6/29): 0220-0230 SP, Latin MoR Mx, anncmts,
 IDs, Cuban NA (choral version), poor w/ QRN (Cooper 7/2): 0201-0223 SP, Anti-Castro
 political tlks, several xmsns on/off sequentially till 0259. Freqs differing by several
 hundred Hz. (Rankin 7/3): 0350 SP, Hrd almost nightly w/ moderate jamming. Milit.
 Mx & Tlks. Very 'rabble rousing' sounding clandestine. (Wallace 7/4): 7402 KHz. 0357
 SP, Cuban NA (Vocal version), anncmt & ID. 0400:30* (Novello 7/4)
- 9495 MONACO TWR; 0705-0730 EG, "Your Worship Hour" M w/ ID "This is Monte Carlo." g-f
 (Archer 7/5)
- 9505 JAPAN NHK R. Japan; 1000 EG News Fair signal (Pyatt 7/7)
- 9520 PAPUA NEW GUINEA NBC; 0750-0805 EG/Lang OM DJ, MoR Mx, TC's, IDs, commercials, 0800
 Nk by OM in Lang. (Hensley 6/16)
- 9525 CUBA RHC; 0630 EG, US development of chemical warfare (Johns 6/14)
- 9525 POLAND Polish Radio; 0200 EG, Yl w/ Cmnty, Review from Polish Nkpaper //15120, 11815,
 6135, 6095 (Johns 6/17)(Reynolds 6/10)
- 9535 ANGOLA R. Nacional; 2338-0000* PT, PT pop ballads, high-life Mx, tlks by W anncr. ID
 @ 2345, ID w/ freqs @ 2358, then NA & off (Cunningham 6/22)
- 9545 SOLOMON ISLANDS SIBC; 1030 island Mx, 1100 EG Nk, 1110 pop Mx & NA to 1132*, Exc
 signal sounds like 100Kw, even wiped out VOA on same freq. //5020 also good (Behr 7/2)
 : 0750 EG (Bares 7/14)
- 9550 CHILE Radio Nacional; 0249-0300 SP, Nice soft popular Mx (Quanto, Quanto) clear with
 IDs (Gliksmen 6/15)
- 9553.2 EL SALVADOR Radio Nacional; 0030 SP Nk, 0100 pop Mx to 0230* on 6/23; since 6/26 till
 0457* v; strong (Behr)
- 9554 EL SALVADOR Radio Nacional; *1051-1130 SP, multi-note IS till 1054; apparent NA;
 complete ID by M w/ call (YSS) & freqs 1058. Into pgm of campesino Mx, w/ tlks, TCs,
 IDs between songs by M & W. Possible noticias 1127 after another complete ID. Good
 signal at first, pestered by high-pitched het; by 1120, gradually getting lost in QRM.
 (Cunningham 6/29)
- 9555 EL SALVADOR Radio Nacional; 1115-1138 SP, Mx & Tlk by OM. Good (Bolland 6/28):
 2200-0430 SP (Gliksmen 6/17)(Radcliff 6/18)(Reitz 6/22)(George 6/22)(Fisher 6/22)
 (Valko 6/28)(Diekman 6/29) 7/13)
- 9570 AUSTRALIA Radio Australia; 0852 EG, Listeners Letters, Mx, ID (Holland 6/18)(Bares
 7/13)
- 9570 SPAIN SFR; 2018 SP, No chance for Qatar w/ Spain here. IDs in SP by M & Mx then
 gone. RAI @ 2025 (Valko 6/27)
- 9570 SOUTH KOREA Radio Korea; 1100-1130 JP, Cmnty (Bolland 6/22); 1000 EG (Pyatt 7/7)
- 9575 PORTUGAL Radio Portugal; 0500 EG, Nk, Sport Feature, IDs (Shaver 6/22)
- 9575 ITALY RAI; *0100-0120* EG, Nk & Mx. Good w/ //11800 (Fraser 6/14)
- 9580 AUSTRALIA Radio Australia; 1145 EG, I've been distressed w/ RA for apparently dropping
 the Friday 1245v airing of 'letters to the Editor', which can be one of their more
 entertaining pgms, despite the fact that it still appears in their current schedule.
 In early June, knowing that the 'Australian News' had been retimed to 1130 instead of
 1230 because of DST in the USA, I decided to check 1145, and sure enough, there it was!
 But they have not retimed any other pgms like this, as far as I know. One of the
 presenters, Barry Seaver, won't be heard for some time, as he's gone to Radio Japan in
 an exchange agreement for 2(?) years--don't be surprised if you hear him there.
 (Hauser); 1105 EG, World Nk, ID, Loud signal as if local! (Holland 6/8) 6/24)
- 9585 BRAZIL Radio Excelsior; 0910 M in PT w/ long tlks, instr Mx at 0921-0930 ID (Radcliff
 6/22)
- 9585T CLANDESTINE Voice of Communist Party of Turkey; *1000-1100* TK, No positive ID but
 seemed TK w/ lots of Buzz words like "Communist Party Turkey", "Democratic", "Socialists"
 TK type Mx (Clifford 6/22)
- 9585 SOUTH AFRICA RSA; 0200 EG, Nk, Wx, listeners pgm (Shaver 7/6); 1958 FR (Valko 6/8)...

- 9585 SOUTH AFRICA (Cont.) RSA; 2113-2137 EG, "South African Panorama", "Spotlight" (Lang 6/19)(Conover 6/13)
- 9590 NETHERLAND ANTILLES Radio Nederland; 0240 EG, Newsline, Dutch Oil boycott, "His and Hers" (Cronin 7/8)
- 9600 CUBA : Voice of Cuba program, 1027-1042 EG, IS & ID, pgm summary, tlks, //600 KHz. was better. Didn't know was on Shortwave. Switching error?? (Buer 6/7): noted July 1 at 1000 w/ //600 KHz, but around 1020 swapped with RWS programming on 5045, I doubt that Voice of Cuba is deliberately carried on SW, the domain of RHC, but their slipshod timing and program feeding allows it to be heard sometimes on this frequency (Hauser)
- 9615 COSTA RICA Radio Noticias del Continente; 0256 SP, Cuba style M & W alternating comments, calls, freqs, IDs (Novello 7/3)(Whitney 6/10)(Reitz)
- 9635 USA Voice of America-Greenville, NC; 0227-0231 UK, VOA Washington ID at 0230. Fair, 77 15270, 9760, 6180, 6125 KHz. (Halsema 6/12)
- 9645 BRAZIL Radio Bandeirantes; 2310-0000 PT, Tlks by enthused M, anncts, ads for futbol, pop Mx interludes. Shouted IDs as "Bandeirantes" (Cunningham 6/8)
- 9645 COSTA RICA Far Del Caribe; 1100-1130 SP, rel Mx. (Bolland 6/22)
- 9650 GUINEA-Conakry; 0646 FR, Afr vocals, drums, ID. //to slightly worse 16308 KHz. (Radcliff 6/17)
- 9650 GREECE Voice of Greece; 0244-0256 GK, chimes, ID as "Edo Athens" TK or GK Mx (Valko 6/28)(Posporelis 7/7)
- 9655 GREECE Voice of Greece; 0130 EG, ID, Nx, //11750 better (Williams 6/11)
- 9660 AUSTRALIA ABC-Brisbane; 0644 EG, US & Aussie pops, Nx on the hour. vg. (Radcliff 6/18)
- 9660 VENEZUELA Radio Rumbos; 0024-0100 SP, Houston Astro baseball game, complete w/ pre-game interview by Radio Rumbos announcers in SP (Gliksmann 6/25)
- 9680 AUSTRALIA ABC-Melbourne; 0707 EG, end of Nx, short interview w/ some government official about flooding. Good (Radcliff 6/23)(Williams 6/10)
- 9700 EWANDA DW-Kigali Relay; *2200 GM, FR site ID, Nx, cmntry. g (Lang 6/26)
- 9705 USA WYFR; 0600W EG, Tho not indicated in their current pgm schedule, which is printed months in advance, WYFR has taken another step toward anticipated 24h service. Noted 6/18 closing EG 0600 (an extension of one hour), saying they'd be back at 0000 on 17845, and 0100 on 9715. They apparently switch at 0500 from 9715 to 9705, as Radio Mexico is off by then, and Radio Nederland is soon coming up on 9715 KHz. (Hauser); 0126 EG, rel pgm, ID, hymns (D'Angelo 6/23)
- 9705 BRAZIL R. Nacional de Boa Vista; 0046-0110 PT, clear mentions of Boa Vista, along w/ Radio Nacional IDs, Pop Mx, some sort of discussion at 0101-0106 (Gliksmann 6/20)
- 9710 ARGENTINA Radio El Mundo; 0030 ID, ads & tangos, 0100 TC & SP Nx; good, but not daily; ex 9705 KHz. (Behr 6/20): 0030 SP, After sports coverage, heard ID for Radio Antartida, good signal. This is no doubt the Radio El Mundo transmitter, but it is not clear whether such programming from another MW station should make this a separate 'station' (Hauser)
- 9720 SRI LANKA SLBC; *1230-1240 EG, M, ID, EZ Mx, poor (Archer 7/4)
- 9725 SWITZERLAND SRI; 0145-0200 EG, Nx-'Dateline' (Reynolds 6/12)
- 9745 CAMEROON Radio Yaounde; 2225-2259* FR, clear after Iraq s/off. Tlk, pop Mx OM DJ. Anthem & off on 6/23; also heard EG Nx at 2200 on 7/4 -No Iraq! (D'Angelo 6/23); (Lang 6/13)(Valko 6/19)
- 9750 ALBANIA Radio Tirana; 0252-0300* EG, Mx from the highlands, ID (Posporelis 7/7)
- 9750 VENEZUELA Radio Occidente; *1000 SP, OM anncr w/ s/on after NA, LA Mx (Klein 6/9)
- 9760 AUSTRALIA Radio Australia; 0714-0740 EG, pop Mx w/ Village People, Blondie, etc. Nx @ 0730. Reported as Capital Radio-Transkel in May IR-C (Radcliff 6/23)
- 9760 GREAT BRITAIN VOA-Wofferton Relay; 2027 EG, Jazz, Mx USA "Secret Love" //6040, 11760, 15140, 15205, 17785 KHz. (Halsema 7/3)
- 9770 AUSTRIA ORF; *0130-0153* EG, "Report from Austria" (Fraser 6/5)(Brouillette 6/5) (Conover 6/19)
- 9800 USSR Radio Kiev; 0030-0100 EG, Nx, This week in the Ukraine, Summary of Int'l events, Mailbag (Browne 6/29): 0300 EG (Posporelis 7/7)
- 9805 EGYPT Radio Cairo; 2220 EG, Woman anncr, local Egyptian Mx, TC. (Alexander 6/29)
- 9815 ISRAEL Kol Israel; 2230 EG, World Nx by M, discussed security of Israel & Prime Minister Begin. //15582 better (Cronin 7/8)
- 9835 HUNGARY Radio Budapest; 0200 EG, Nx, Cmnty & 'Hobby Weekend' Fair (Conover 6/22)
- 9977 NORTH KOREA Radio Pyongyang; 1100 EG, Non-Aligned countries unite against world pwr. (Johns 6/14)(Shaver 6/25)
- 10080 VIETNAM Voice of Vietnam; 1100-1130 EG, M & W w/ tlks abt Kampuchea. ID (Archer 7/4)
- 11600 CHINA Radio Peking; 1005-1010 EG, ID, Tlk on Embroidery & Restaurant cuisine. Fair 77/11720 Good (Posporelis 6/10)
- 11620 INDIA AIR; 2100 EG, ID as "You are listening to the General Overseas service of All India Radio." Nx, Sitar Mx (Aroher 6/14)(Reitz); 1200 EG (Williams 6/14)
- 11637 ISRAEL Kol Israel; *2230-2300* EG, Nx & Forum, //15582. Both Good signals (Fraser 6/4) 10220 EG, DX Corner by Ben Dolfin & Judy Cooper. (Byron 6/15)
- 11665 KUWAIT Radio Kuwait; 2050-2100* EG, rock Mx, (Cronin 7/8)(Saunders 6/21)(Holland 6/8)

I just upgraded my 'Ham' station. I'm now using a Swan 500CX which enables me to have SSB contacts. 94, it was mostly CW. I'll be glad to QSO w/ any Hams in NASWA. Best of 73's *Shaver*

log report *section*

11700 TO 17699



TERRY COLGAN

- 11700 MONACO TWR: 0429-0434 AM, mx box IS, ID, rel mx (Valko) Williams)
11705 SWEDEN RS: 0230-0300 EG, ID, nx, "SCDX", "Panorama" (Archer, Lang,
11705 AUSTRALIA RA: 1008 EG, wrld nx, ID (Holland)
11705 MONTSEERRAT? DW: 1012 SP, nx, ID (Holland) can anyone confirm this
site?--tc
11710 UNITED KINGDOM VOA: 2005 RS, ID, nx by M & W (Holland) (Conover)
11720 CANADA CBC: NS 2118 EG, relay of CFFB-Frobisher Bay, NT w/ nx
11740 ALGERIA RTVA: 2028 EG, rock & disco mx, IDs by M (Valko)
11750 SINGAPORE BBC: WS 0957 EG, nx read by M (Sbordone) (Alexander)
11750 BULGARIA RS: 2130-2155 EG, ID, nx read by W, cmntry, "Sports Roundup"
11760 GRECE VOA: 2014-2027 EG, "How Americans Greet Each Other", "Music
USA" (Halsema, Holland)
11765 CHILE VOC: *0330-0503* SP, pop mx, ID @ s/off; no ES hrd since May
on any freq (Behr)
11770 NIGERIA VON: 2124-2200 EG, Af mx, IDs, nx by M, TC (Briscoe, Valko)
11770 USSR RM: *2300-0000 EG, nx, "Moscow Viewpoint", DX pgm, mx (Fraser)
11775 SPAIN REE: 2030 SP, tlk, nx, class mx (Holland)
11790 AUSTRALIA RA: 0931-0936 EG, W w/ nx (D'Angelo)
11800 ITALY RAI: 0045 IT, rock & jazz mx, nx (Slomka) 0100-0120 EG, IS, W
w/ nx, mx (Williams)
11815 POLAND RP: 0200-0243 EG, ID, nx, cmntry, mx (Cronin + others)
11820 USSR RM: WS 1410-1415 EG, ID by M, cmntrys by W (Valko)
11830 VATICAN VR: *2230 lang, IS, s/on anmts (Valko) VR sked shows lang
to be CH--tc
11835 UNITED KINGDOM? BBC: WS 0215-0225 EG, 1/2 hr chimes, "Profile";
switch from sked 11845?, 6/6 (Behr) yes, noted here 7/13 @ 0230*
with closing anmts; and this freq--tc
11835 SRI LANKA SLBC: 1112-1132* EG, "The Windows of Heaven", ID, s/off
anmts (Glikzman)
11835 HAITI 4VEH: 1115-1230 EG, "Living Bible", nx, maritime wx, ID, lcl
& GMT TC (Cucura, D'Angelo, Fraser)
11835 URUGUAY R. El. Espectador: 2220-2303 SP, rel pgm w/ mx & tlks,
thought 4VEH at first until 2300 ID proved me wrong, mentions of
Uruguay, 7/3 (Valko) this stn not hrd here, so I can't confirm whether
they regularly bcst a rel pgm at this time on Mondays--tc Sbordone)
11840 GUAM KTWR: 0913-0929 EG, rel tlks & mx, ID & into JP (D'Angelo,
11840 PORTUGAL RP: *2200-2210 PT, s/on w/ NA, IDs in fast PT, mx (Valko)
11845 VATICAN VR: *0059-0114* EG, IS, ID, M w/ nx, rel pgm (Archer, Shaver)
11855 CZECHOSLOVAKIA RP: 0725 EG, IS, into nx read by W, As/Pac svc (Bares)
11855 SAUDI ARABIA BSKSA: 2015-2159* EG, tlks, IDs, EZL, class & C&W mx
(Briscoe, D'Angelo, Lang)
11860 LIBERIA ELWA: 2040-2117* EG, "Back to the Bible", ID, pgm notes, IS
to s/off (Potter)
11865 WEST GERMANY DW: 0120 EG, nx, tlks (Slomka)
11870 NORWAY RN: 0215 EG, nx, mx, ID (Shaver)
11875 JAPAN RJ: 1005-1010 EG, cmntry on elections, ID (Posporelis)
11880 SPAIN REE: 0125-0200 EG, nx, tlks, DX pgm (Brissett, Cronin) 0248-
0252 SP, nx headlines (Halsema)
11885 TURKEY VOT: 2055 EG, tlk on Turkish economy, mx, IDs by M & W (Valko)
11890 PHILIPPINES FEBC: 0920-0957 EG, rel pgms, mx, cmntry, M w/ ID, covered
by TWR IS @ 0957 (D'Angelo, Hensley) (Behr)
11890nf NETHERLANDS ANTILLES TWR: *0135, IS, EG ID, nx, test to ME, 6/14
11910 HUNGARY RB: 0210-0225, 0310 EG, IDs, mx, DX pgm (Cronin)
11910 ECUADOR HCJB: 0450-0500 EG, "Happiness Is..." ID, anmts (Archer)
11925 BRAZIL R. Bandeirantes: 2352-0016 PT, psbl nx, good IDs (Glikzman)
11925 PORTUGAL RP: 0300-0330, 0500-0600 EG, W w/ nx, ID, sprts, sked,
"Events of the Week", "Report from Portugal" (Cucura, Johns, Williams)
11940 ROMANIA RB: 0140-0210 EG, nx, "Youth Club", Romanian mx (Jordan,
Shaver)
11945 NEW ZEALAND RNZ: Don't believe a previous rept of mine that "New
Zealand Calling" pgm repeats on this freq at 0815, it's actually 0845-
0915; also they will run it fortnightly, so in effect it's on the 2nd

- and 4th Mondays thru October (Hauser)
- 11955 CANADA RCI: as of 6/15 this replaced 9580 for "Sunday Morning" relay 1300-1600; 16mb //s remain poor here (Hauser) also hrd by (Conover)
- 11970 TUNISIA RTVT: 2315-2352* AR, lcl mx, ID @ 2340, chants, NA @ s/off, //15225 stronger (Lang)
- 11975 EAST GERMANY RBI: 0030, 0129, 0200 EG, cmntry, IS, ID, nx, pop mx, sprts (Pyatt + others) Cronin, Cucura)
- 11990 CZECHOSLOVAKIA RP: 0100, 0335-0350 EG, nx, cmntry, mx (Bolland,
- 12000 AUSTRALIA VNG: 0744, time pips, EG stn ID on 2 hrs (Glikzman)
- 12015 AUSTRIA ORF: 2200 GM, IS, ID, M w/ nx, mx @ 2205 (Alexander)
- 12030 USSR RM: *2300-0030 EG, nx, "Moscow Viewpoint", other pgms as usual (Cronin, Egbert)
- 12050 EGYPT RC: 0315 EG, ID, ME mx, nx (Archer)
- 12070 MONGOLIA RUB: 1220 EG, IS, ID by W (Moman)
- 14550v USA R. Confusion: *0100-0207* EG, adhering to its sked, made an appearance 6/23, said show was recorded two hrs before bcst, accurate GMT TCs, hard sell FRC ads, ID jingles, rock mx, anncd contest for Jul bcst--identify six songs with 'crazy' in them--prize \$19.81, mod distorted and unpleasant, good strength, but some deep fades (Hauser) also hrd by (Colgan, Conover) *0500-0515* EG, rock mx, bad mod & plenty of hets, QSYed frequently (Wallace) anyone else note this later bcst?--tc
- 15000 CHINA BPM: 1306-1402, CW and voice IDs hrd 1009, -19, -29, -59, format of second and minute markers different from everyone elses, 6/20 (Potter) cf. Jul LR-D-2, 14996 khz; drift?--tc
- 15012 VIETNAM VOV: 2035-2051 EG, nx read by M, IDs, As mx, cmntrys (Valko)
- 15015 ECUADOR HCJB: 0152-0158 EG, typical pgmng, weak & // strong 15155, still having spur problems??, 6/17 (Cunningham) yep--tc
- 15045 GRENADE RFG: 2130-2300 EG, IDs, freq, pop mx, tlks, TCs, obits, BBC nx @ 2300 (Browne + others)
- 15060 SAUDI ARABIA BSKSA: 1707-1714 AR, tlks, AS mx (Valko)
- 15070 UNITED KINGDOM BBC: WS 1354, 1730-1758 EG, class mx, sprts, nx (Holland, Reynolds)
- 15084 IRAN VOIR: 0107-0117, 1400 PS, rev mx, nx, ID by W (Brouillette, Holland) let's try last month's comments again--WRTH NL lists this freq 1930-0130 in PS for DS and 0130-1930 in PS for ES, no AR listed --tc
- 15105 WEST GERMANY? DW: 0118-0130 EG, IS, ID, freq anmts, W w/ nx, "Current Affairs Magazine" (Brouillette)
- 15105 CHINA RP: 1405-1415* lang, class mx, ID (Holland)
- 15105 GRENADE RFG: 2035 EG, tlk by M abt Grenada, nx, f (Valko)
- 15115 ECUADOR HCJB: 1420 EG, rel mx, ID (Holland)
- 15120 NIGERIA VON: 0855-0901 EG, ID & TC @ 0900, mx (Potter)
- 15120 POLAND RP: 0202-0300 EG, nx, cmntry (Archer, Brouillette, Eckman)
- 15125 PORTUGAL RP: 0030 FR, ID, tlk (Slomka) 0320-0330 EG, stamp pgm (Brissett)
- 15135 CHINA RP: 1105-1110 IN, ID, anmts by W, CH songs, vg (Buer)
- 15135 BULGARIA RS: 2130-2200 EG, ID, nx, cmntry, mx (Fraser, Williams)
- 15145 AUSTRALIA RA: 0630-0713 EG, tlks, mx, nx (Diekman, Halsema)
- 15150 USA VOA: *1500 EG, wrld nx, ID, QRM de RM (Holland)
- 15155 ECUADOR HCJB: 0230-0358 EG, "Tunes for the Times", "Guidelines", "DXPL", lbx (Earhart + others)
- 15155 CUBA RHC: 2100 EG, tlk on draft registration (Conover)
- 15165 DENMARK RD: *1729-1744, IS, ID in EG/DN, into DN nx, said bcst was to Greenland and the Pacific; DN to the Pacific?! (Valko) sure, bcst to seamen--tc
- 15170 SOCIETY ISLANDS RT: 0545-0819 FR/TT, island mx & disco (ugh!--tc) (Shaver, Valko) (Brouillette, Earhart)
- 15175 BELGIUM BRT: 0030-0059* EG, "Brussels Calling", usual pgms
- 15175 NORWAY RN: 1600-1630, 1800-1814, 2058, 2210-2230 EG, IS, nx, cmntry, IDs (Reynolds + others)
- 15185 USA WINB: *2002-2006 EG, ID, rel tlk (Lang)
- 15190 FRANCE RFI: 1451-1500 FR, ID by W, Beetles mx, M w/ tlk (Valko)
- 15195 USA VOA: 2031-2037 FR, nx to 2035, "Music USA" (Halsema)
- 15200 INDONESIA VOI: 1400-1430 EG, ID, nx, cmntry by W (Williams)
- 15205 MOROCCO VOA: 2020-2024 EG, "Music USA" (Halsema)
- 15225 TUNISIA RTVT: 2315-2352* AR, lcl mx, ID @ 2340, s/off w/ NA (Lang)
- 15230 CUBA RHC: *2155 lang, ID, tlk by W (Valko) RHC sked lists Quecha in this time slot--tc
- 15236.2 ALGERIA RTVA: 2005 AR, mx, "Sahara" pgm @ 2202, QRM de Libya (Behr)

15240 AUSTRALIA RA: 0715-0720 EG, sprts, soccer game, //21680 (Halsema)
 15240 EAST GERMANY RBI: 1315-1345 EG, ID, mx, cmntry, Af svc (Williams)
 15240 YUGOSLAVIA RY: 1525 EG, IS, ID, sked by W (Moman)
 15245 MOROCCO VOA: 0615-0635 EG, "Breakfast Show" (Archer)
 15260 CANADA RCI: 1800-1808 EG, nx, sprts, "Canada a la Carte" (Halsema)
 15270 JAPAN RJ: 1900-1915 EG, IS, ID, nx, cmntrys (Browne)
 15275 USSR R. Kiev: 0045 EG, IS, M & W discussing USSR life (Archer)
 15275 ALGERIA RTVA: 0330 AR, tlks, nx @ 0400, into mx; here 6/18, later moved to 15236 (Behr)
 15290 SWEDEN RS: 0230 EG, was in the clear for abt a wk on 15315, but as of 6/25 was back here, mixing w/ Brazil; presumably RN had complained abt QRM during 0200 SW bcst (Hauser)
 15290 BRAZIL RNB: 0313-0401 EG, mx, tlks, ID, IS (Earhart, Pyatt, Valko)
 15300 FRANCE RFI: 1605-1630 EG, "Paris Calling Africa" (Williams)
 15300 ECUADOR HCJB: 2130 EG, moved here for 2130-2200 xmsn--incl "DXPL"--first noted 6/1 (Hauser) also logged by (Conover)
 15305 SWITZERLAND SRI: 0155-0215 EG, pgm abt GM speaking Swiss (Johns)
 15315 SWEDEN RS: 0230-0300 EG, first noted 6/20 (Hauser) also hrd by (Cronin, Johns) see 15290 above; noted back here 7/22--tc
 15315nf IRAN VOIRI: 0300 FS, tlk, mx @ 0400, weak, //15084 much stronger, 6/18 (Behr)
 15319v ALGERIA RTVA: 2002 EG, nx; 2032 SP, nx; 0005 "La V. de la Resistencia" to 0034*, //17719, 21635 (Behr)
 15325 CANADA RCI: 1650, 2010 EG, ID, tlks, pop mx (Holland, Valko)
 15330 ITALY RAI: 0400-0410 EG, nx to 0407, tlks, ID (Brissett) Williams)
 15335 INDIA AIR: *1330-1430 EG, W w/ nx, ID, mx, cmntry @ 1420 (Johns, Reynolds)
 15335 MOROCCO RTVM: 2100-0100* AR, mx, nx @ 2300, mx to 0100, //21735 (Behr)
 15345 NEW ZEALAND RNZ: 0500-0600 EG, variety show, Hitchcock ghost story (Byron)
 15350nf ECUADOR HCJB: 0010-0020 GM, rel pgm, ID @ 0015, here from 15360, 6/12 (Buer)
 15360 SINGAPORE BBC: 1126-1130 JP, EG LL, ID, QRM de RM (Buer)
 15360 TURKEY VOT: 2200-2300* EG, nx read by W, "Spotlight on Turkey", "Strolling Through Anatolia" (Alexander, Fraser, Shaver)
 15365 GUAM KTRW: 1430-1500 EG, ID by W, rel mx & tlk (Reynolds) (D'Angelo)
 15365 CANARY ISLANDS REE: *2042-2110 SP, IS, s/on anmts by W, mx, ID
 15375 LEBANON RL: 0140 FR, ID, W w/ nx, ID per WRTH (Archer) 0230-0300 EG, nx, pop mx, IDs, into SP @ 0300 (Calderwood, George, Johns)
 15385 BELGIUM BRT: 0015-0100 EG, regular "Brussels Calling" pgm (Byron, Moman, Williams)
 15400 FINLAND RF: 0328-0359, 1300-1400, 1430-1443 EG, IS, ID, freq anmts by W, nx, mx, tlks (Jordan + others)
 15405 SEYCHELLES FEBA: *0155-0228 HD, EG ID, into HD pgms, het (Potter)
 15420 CYPRUS BBC: 1730 EG, into lang @ 1745 (Conover)
 15425 PHILIPPINES VOA: 1240-1250 EG, ID, cmntry, mx pgm, f (Archer)
 15430 USA AFRTS: 1730-1900 EG, newsfeeds, ID (Halsema, Holland)
 15440 PHILIPPINES FEBC: 1345-1400 EG, ID, rel pgm (Williams)
 15440 USA WYFR: 1710-1730 AR, bible reading, rel mx (Halsema)
 15455 USSR RM: WS 1818 EG, nx, lbx, RS mx, ID (Slomka) (Reynolds)
 15460 USSR R. Tashkent: 1400-1430 EG, ID by W, nx, cmntry by M & W, mx, p
 15465 EGYPT RC: 1825-1845 AR, "V. Arabs" pgm, much AR mx (Holland, Valko)
 15520 CHINA RP: *1200-1255* EG, IS, ID by M & W, nx, cmntry, lbx, "Music Album" (D'Angelo + others)
 15535 USSR RM: WS 1900-1914 EG, ID, nx, "News & Views" (D'Angelo) Valko)
 15540 USSR RM: WS 1300-1321, 1512 EG, ID by M, "News & Views" (Hensley, Reynolds)
 15500 COLOMBIA R. Nac.: 0030-0210 SP, class mx, nx @ 0100 & 0200, IDs by M & W (Jordan, Reynolds)
 15560 AUSTRIA ORF: 1832-1837 EG, nx by M, lcl wx, orch mx, ID by W (Valko)
 15582 ISRAEL KI: 0006-0015, 0200-2015, 2230-2300 EG, wrld nx read by W, IDs, cmntrys, DX pgm (Hensley + others)
 17605 NETHERLANDS RN: 1832-1845 EG, "Newline", "News from Africa" (Valko)
 17695 NETHERLANDS ANTILLES RN: 1955 DT, mx, ID, tlk by M & W (Saunders)
 17680 CHINA RP: 0205 EG, ID, M w/ nx (Archer)

That's it for this month. 73 de tc

log report *section*

17700 & ABOVE



BRETT SAYLOR

* **NOTE:** Your editor has a new address - 750 G Mickley Run Apartments *
* Phone (215) 776-1254 between Whitehall, PA 18052 *
* 2200 and 0200 GMT. (near Allentown) *
* * * * *

- 17710 USA VOA Bethany; 2038-2050 EG, Rpt to Africa, sports (Halsema)
17710 HUNGARY R Budapest; 0100,0200,0300 EG, news and comments, DX pgm during 0300 xmsn on 6/4; HG at 0330 w/ discovery of old churches from the Roman occupation (Archer, Byron, Johns, Reynolds)
- 17719v ALGERIA RTVA, V de la Resistencia; 0005-0034*; 0515 pop mx, 0600 FR nx, // 15319, 21635 (Behr 6/27)
- 17720 FRANCE RFI; 1600-1654 EG, Paris Calling Africa, nx on Org of Afr Unity mtg in Freetown, Sierra Leone (Johns, 7/4)
- 17740 USA VOA Greenville; 2015-2118 AR, corr rpts; back up to satellite feed to Kavala & Rhodes relay + direct to N Afr (Halsema 7/6)
- 17755 AUSTRALIA RA; 0435 EG, M w/ talk abt oysters, light mx (Archer)
- 17765 MEXICO R Mexico; 0030-0130 EG, new sched from RM shows "La Hora de Mexico" as being an EG pgm, GMT Pri only. Have not had any success in confirming their "Mexico in a Minute" feature supposed to be in EG at various times. Reception is awful, tho on 6/20 around 0100 they faded up briefly atop AFRTS w/ talk in EG abt Mexican mx. //s 15430, 11770, 9705, 5985 useless & this one almost useless. (Hauser)
- 17775 UNITED ARAB EMIRATES Dubai R; 0300-0330 EG, M w/ID, asking for reception reports, Pepsi Cola ad in AR @0330; good (Johns 6/29)
- 17780 USA VOA Bethany; 0240 SP, to LAM, discussn of Cuban refugees, // 15400, 11895, 9670, 6190, 1180 (announced or heard? bs), fair (Halsema)
- 17785 USA VOA Greenville; 2000-2100 EG, nx in special EG, Mx USA, Concert Hall (Fraser 6/15, Halsema)
- 17790 ECUADOR HCJB; 1703 EG, rel tlks by M&W, mnts of US; QRM (Valko)
- 17795 NORWAY R Norway; 2200-2230 EG, Norway This Week (Johns 6/22)
- 17815 ISRAEL IBA-Kol Israel; 2022 EG, use of ham xmters in Israel, Calling All Listeners, nx headlines, vry good (Halsema 7/6)
- 17815 BRAZIL R Cultura do Sao Paulo; 2355-0032 PT, classical mx to 0000, ID & nrcast, EG lang lessons from 0028 (Gliksmn 6/10)
- 17850 FRANCE RFI; 0400-0432 FR, tlks by M&W, mx, //17800, 17865 (Earhart) hope to meet you soon, OM. bs
- 17855 CHINA R Peking; 0000 EG, nx, mx, interview (Shaver 6/28, Archer)
- 17860 NEW ZEALAND RNZ; 0330-0600 EG, RNZ Calling w/ listener's letters, selections of Italian orch, pop mx, classical mx, // 15345 poor (5 reporters)
- 17870 LIBERIA VOA Monrovia; 1700-1730, 2050 EG, Evening Rpt to Afr, nx fair-poor (Halsema 7/3, Archer)
- 17870 USSR R Kiev; 0052 EG, ID, M&W ann w/ Hello from Kiev, listener's mail, upcoming pgm features; fair w/ rapid fading (Archer 6/10)
- 17870 USSR V of Yerevan; 0352-0357 EG, M&W w/ cmtry, nx, ID; QRM from RFI 17865, fair (Archer 7/7)
- 17880 USSR R Moscow; 0001-0030 PT, mx, tlk w/ Brazilian svc, into QUECHUA @ 0030 (Bolland 6/23) 0442-0450 EG, folk songs (Earhart) per Buer and UHN, site from 2200 in PT is Alma Ata, Kazakh SSR.
- 17890 AUSTRALIA RA; 0130, 0458 EG, W w/ ID, light mx, tlk abt QSL crds. Weak, was looking for Taiwan here @ 0130 (Archer 6/12)
- 17890 ECUADOR HCJB; 1432-1447 EG, Morning in the Mountains, rel mx, (E Hoffmann 6/22)
- 17890 SPAIN REE; 0030-0040 SP, tlk by W, mx; fair (Bolland 6/22)
- 17930 LIBYA SPLAJBC; 1653-1702 AR, strange-sounding AR mx, then chimes and ID by M (Valko 7/1) hi, Dave bs. Unid by Rankin rpt here w/ 1755*, tlks in AR by M prob Libya (7/4)

Don't forget to take a SW portable radio on vacation with you!!!

- 17940h GUATEMALA Union R AWR; 0400 EG, clear mnts of AWR, but weak. Rel
 mx and tlk by M&W (Valko 6/14)
- 18080 UNITED KINGDOM BBC; 1510-1530 Hindi, Urdu, sports nx, EG ID @
 1514; Urdu nx at 1516 (Lang 6/19)
- 20060a USA VOA; 1840-1900 Persian, mx, nx, ID as "Voice of America Pers.
 Svc", loud & steady, AM mode (Fraser 6/27)
- 20720a USA VOA; 1850-1900 unkn, speech by W, ID in EG, into anncd Polish
 (Fraser 6/27)
- 21460 USA VOA Delano; 0220-0239 EG, Breakfast show, nx; good (Halsema)
- 21465 EAST GERMANY R Berlin; 1140-1147 EG, end of pgm, ID & IS, into GM
 at 1145 (K Earhart)
- 21475 BELGIUM BRT; 0625 DT, IS, s/on, into mx pgm; for Afr (Bares)
- 21475 FINLAND R Finland; *1430-1450 EG, IS, ID, Northern Rpt, cmtry on
 Olympics (E Hoffmann 6/4, Valko, Egbert)
- 21480 MALAGASY REPUBLIC R Netherlands; 1441 EG, relay to S&EAsia, NxLine,
 Fair w/ slight Finland QRM (Valko 7/3)
- 21485 UAE Dubai R; 1016-1019* EG/AR, s/off w/ ID, address, anthem; test
 xmsn (Buer 6/7)
- 21485 USA VOA Bethany; 2038 EG, Evening Rpt to Afr (Halsema 7/3)
- 21490 USSR RM; 0423-0430 EG, interview, world svc ID (Earhart 7/4)
- 21500 USA VOA Greenville; 1542 Estonian, weak w/ woodpecker QRM (Halsema)
- 21505 CZECHOSLOVAKIA R Prague; 1553-1618 EG, nx, features, pop mx, mnt
 Afr as target area (Valko 7/1, E Hoffmann)
- 21505 SAUDI ARABIA BSKSA; *0558 AR, Koran pgm & chants, strong (Behr)
- 21515 FRANCE RFI; *1605-1655* EG, PCA, nx, mx, Spotlight on Afr; good,
 7721595 (Fraser 6/21)
- 21530 PORTUGAL RP; 1800-1830 EG, world nx, Portugal this Week, mx, ID's,
 poor-fair (Browne 6/28, Cooper)
- 21535 SOUTH AFRICA RSA; 1753 GM, IS, ID in GM/EG, NA, nx (Saunders) 0623
 EG, mx pgm, better than //15220, same level as 17780 (Bares)
- 21545 KUWAIT R Kuwait; 0512 EG, US pop & rock mx, nx at 0530 (Moman 5/31
 *0459 EG, M w/ AR, EG ID's, TC, NA, great signal (Archer 7/7)
- 21560nf UK BBC; 2035-2115* EG, Strictly Instrumental pgm, pulsar QRM ter)
 First listed in August "London Calling" listing start at 2000 (Muns-
 MALTA DW; 0030-0056 PT; annct of LAM pgm, site ID, Brazilian song
 world nx (Jordan 6/6)
- 21550 UK BBCWS; 1730 EG, The Medical Pgm, prevention of disease in Afr.
 (Slomka 6/25)
- 21560 ITALY RAI; 1830 IT, nx & mx (Bolland 6/2)
- 21570 USA AFRTS Delano; 2027-2120 EG, NPR's All Things Considered, sport
 s, WWV time signal at 2030 (Halsema 7/5) nolds)
- 21570 SWITZERLAND SRI; 1530-1550 EG, mx, cmtry, excellent nx; good (Rey-
 21580 UK BBCWS; 2030-2100 EG, St. Marks Church Svc from Jersey, Channel
 Is, remote bcst (Briscoe 6/29)
- 21580 FRANCE RFI; 1610 EG, PCA, fair (Pyatt 7/4)
- 21585 SWITZERLAND SRI; 1510 EG, hrd hear but anncd 21570 6/7; back there
 next day (Husser) 1820 EG, ID, nx by M, fair (Valko) 0030-0100 IT
 tlk by M,W (Bolland 6/23)
- 21591.4 PAKISTAN (tent) RP; 0410-0421 Farsi?, tlk by W; first thought it
 Saudi Arabia but after consulting WRTH believe it Paketrn (Earhart)
- 21595 FRANCE RFI; 1605-1654 EG, PCA, ID's, disco & Afr mx, Otis Redding
 w/"Dock of the Bay", interviews; good w/fading (Archer 6/14, Valko)
- 21615 USA WYFR; 1743 EG, religious prgming (Saunders 6/22)
- 21615 SWEDEN RS; 1400-1430* EG, nx, mx, Sweden Panorama (Egbert, Hoffmann)
- 21635 ALGERIA RTVA; 2000-2030 EG, ID by W, nx, pop/disco mx, local mx;
 // Ireq's anncd: 251, 7145, 9610, 11740 KHz; good (7 rpters) Q013-
 0020+, Voz de la Resistencia Chilena, SP, w/ tlk, mx, ID @ 0016,
 QRM'ed (Buer 6/18)
- 21645 SWEDEN R Sweden (Sveriges Riksradio); 1700-2030 SSB relay of home
 svc as per June LN-7; signal quite good at times, wish I knew SW.
 (Hedstrom 7/9) 0330 SW, home svc relay USB, sked to only 2030
 (Novello 6/23) I also rcvd a report of this as definitely R Norway
 on LSB; since I am at work during the time they are on I cannot
 monitor this frequency. I would greatly appreciate it if some of
 you would keep a watch and let me know what you find for next month
 s LR-E. Thanks...bs

Three pages of logs this month! Keep them coming.....

- 21655 PAKISTAN RP; 1600-1615 EG, ID, M w/ nx, good (Archer 7/4)
- 21655 AUSTRIA ORF; *1230-1255* EG, on this freq from their former 15290 which had a lousy signal, switched by 6/15. News & Views, Life from Vienna (Hauser, Brouillette, Cucura)
- 21680 AUSTRALIA RA; 0319-0620 EG, mx, horse races, fluttery signal but good, //21525 (Bares, Halsema)
- 21690 UK BBCWS to West Indies; 2115-2245 EG, replacing 21710 due to Israel and jamming against Israel (in the 2000-2115 period 21560 is the replacement for 21710) However, Israel has moved off 21710 at other times of the day so it's clear again for BBC (Hauser)
- 21700 UAE Dubai R; 0345-0430, 0516-0645 EG/AR, US pops, EG ID's by M, test rxn annncd. Request reports, and is relay of domestic svc. (Munster 6/18, Archer 7/6, Behr 6/9)
- 21730 NORWAY RN; 0400 EG, exports (Johns)
- 21735t NOROCOCO RTVM; 0000-0100* AR, chanting (Johns) s)
- 21740 AUSTRALIA RA; *0100-0300* EG, nx, mx, //21680 (Johns 6/26, Reynolds)
- 21745 PAKISTAN RP; *0230 EG, slow nx, strong, much better than //21590 (Novello, 7/1)
- 21755 PAKISTAN RP; 1600 EG, s/on w/ ID that sounded like "Raw-de-yo Pok-e-stan", hi! (Valko 7/3)
- 21755 ISRAEL Kol Israel; 2210-2215 Lang?, ID, nx? (Posporelis 6/5)
- 23470h BULGARIA R Moscow; 0205 RS, clear here while fundamental 11735 had a het on it. Presumed site (Hauser 6/24)
- 23570h WEST GERMANY DW; 0208 SP, 2x11785. Not sure of site (Hauser 6/24)
- 23820h HUNGARY R Budapest; 0209 EG, w/ unmistakable nasality & accent of Laszlo Pinter, 2x11910, fund QRM'ed by HCJB (Hauser 6/24)
- 25790 SOUTH AFRICA RSA; EG 1449, tlk on men wearing bracelets (!bs) and ID's (Valko 7/3)
- 26020 ECUADOR HCJB; 1700, 2130-2200, 0200-0300 EG, regular fair, still coming in well (Archer 7/6, Johns) have heard that this freq may possibly be reduced in power even further -- check LN & LR-E for further details...bs
- 100w
- 27275 UNID Pirate Stn; 0653-0728 EG, rock/disco mx, w/ tech difficulties. Sounded like he was rebroadcasting (Danko 6/22)
- 89100 QUEBEC CKRL-FM 89.1; 2300 FR, exemplifying the summertime sporadic E condition, heard w/ mellow jazz and ID. Listed power as 1400w (Hauser 6/18)
- 91300 USA Received a QSL from radio KVLU, Beaumont, TX, from a rpt of 6/23 during very nice morning opening that also yielded TV-DX from Fla., Okla., and Cuba...bs

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Thanks to Bill Oliver for the extra pages--I was able to use almost every log received this month! Thanks to all you reporters and keep up the DX in the high freq's where QRN is low and program excitement is high!

While I have the room a few requests---PLEASE cut all of your loggings into individual strips, one log per strip, to make editing easier for yours truly. It may not seem like much to you, but when I have 300+ loggings spread out over my livingroom floor it's tough to keep multiple-report loggings where they belong. And please limit the width of the strip to 3/4"-1 1/2" -- also to help me keep all where they should be.

You're a great bunch of reporters, so keep the loggings coming as I start my second year as LR-E editor. I've enjoyed every month of it!

73's and best of DX.....

Bill

NRD-515 receiver

by Bob Foxworth, New York, N. Y.

Christmas in June.

It's not often that Christmas comes in summertime but it seemed that way when I got a loan of a new receiver from Perry Ferrell at Gilfer Associates, for evaluation on medium wave operation.

My main interest was in checking out the radio on ECB reception but I spent a lot of time with it on LW & SW as well (all are bands DXed here) and am very pleased with the results, so much so that I now own the radio! Since this is an unusual set in some respects, it warrants a lengthy review as there is a lot to tell about it and surely many DXers will want to know if the price tag of the set is justified. So we'll report our findings here and give the reader a better opportunity to evaluate what this new set can do.



Specifications. The receiver is the Japan Radio Corp. type NRD-515 which is handled in the U.S. by Gilfer Associates, Inc. of P.O. Box 239, Park Ridge, N.J. 07656. It measures 34 x 14 cm front by 30 cm deep and weighs $7\frac{1}{2}$ kg. It is completely synthesized and tunes from 100 kHz to 30 MHz continuously, in steps of, and with resolution to 100 Hz. In practice, signals to below 50 kHz can be copied satisfactorily (with reduced gain) if a proper antenna is provided. The set copies AM, CW, Single Sideband (L and U) and RTTY. It is a double superhetrodyne with first IF at 70.455 MHz and second IF at 455 kHz. Sensitivity is rated less than 6 μ V from 100 to 1600 kHz and less than 2 μ V from 1.6 to 30 MHz for an AM signal at 10 db S/N. Those figures are less than 2 and less than 0.5 μ V for a CW signal. Selectivity is offered as 6 and 2.4 kHz bandwidths, with a 0.6 kHz option available, and a fourth switch position permits a second option which can be a 300 Hz filter, or some other user-supplied filter, operating at 455 kHz. Specs are given as, for the 6 kHz position, more than 4 kHz wide at 6 db down and less than 10 kHz wide at 60 db down. In the 2.4 kHz position, more than 2 kHz wide at 6 db down and less than 6 kHz wide at 60 db down, and 0.5 and 3 kHz at 6 and 60 db for the 600 Hz mechanical filter option. (The 2.4 kHz is also a mechanical filter of Kokusai manufacture). Image and IF feedthrough suppression is better than 70 db in each case. Frequency stability is better than 50 Hz/hour after warm-up. Antenna connection is a single 80-239 jack and is rated 50 to 75 ohms unbalanced. Speaker and headphone outputs are both 4 ohms and line and recording outputs of 1 milliwatt at 600 ohms unbalanced are provided for audio work. The 455 kHz filtered IF output is provided at 50 mV across 75 ohms. VFO signals are available. A 0-10-20 db antenna attenuator, fast/slow AGC, passband tuning and delta-F tuning (or, clarifier, if you will) each cover \pm 2 kHz. Power is 110 or 220 VAC at 50/60 Hz and consumption is 50 volt-amps.

Operation. The receiver is tuned by a large front panel knob driving what is called a "shaft encoder" with a notched or etched disc that breaks a beam of light hitting a photocell. Every break of the light beam generates a pulse that steps the synthesizer higher or lower, depending on the direction of rotation. This changes the receiver tuning by exactly 100 Hz per step and the 6 digit reads accordingly, with leading-zero blanking for tens and units megahertz when needed. The 0.1 kHz digit is always on. The knob provides a single tuning rate of 10 kHz per revolution, completely linear and effective on all 30 ranges, which are selected by a detent-stop rotary switch in a 0 to 29 range. In addition, the edge of the knob itself is marked in 1 and $\frac{1}{2}$ kHz steps to provide an "analog" feel for the operator who may be searching for signals. Each 1 kHz interval on the knob rim is a distance of about 20 mm; the knob is 60 mm diameter. As with any receiver, measurement of frequencies to the 100 Hz accuracy imputed by the readout requires use of the BFO which must first be carefully zerobeat with a known accurate signal; the unknown is then carefully tuned to the closest interval to zerobeat and the dial read. Fast up and down tuning is also provided by a toggle switch that provides a pulse train that rapidly steps the

synthesizer at a rate of about 100 kHz/second. Tuning with the knob is effortless as the knob does not drive any mechanical linkages, or rotating indicators or other parts which might cause friction. A finger hole is provided, and the knob can be spun quite rapidly when the user wants to "get there" in a hurry. CW operators will notice what hams call a "bagpipe" effect as the set is tuned in CW mode; the beat note jumps in precise 100 Hz steps. However this effect is not noticeable when tuning AM signals except when tuning very rapidly across a very strong signal when a slight "whir" momentarily modulates the audio and stops when tuning ceases.

The NRD-515 is improved over earlier designs, in addition to the ease and precision of synthesized tuning, in the ability to tune across a megahertz band-end or from one 1-mHz range to the next one. Put another way, some sets tune the "kHz" in a single sweep from 000 to 999 with stops at both ends. The "MHz" is selected separately by a knob, just as the NRD-515 does. (Note though, the MHz change knob in the NRD-515 switches only DC and not RF, for greater reliability). Now to tune, for example from 4970 to 5020 kHz it is necessary on other type sets to crank the mechanically driven oscillator knob all the way from "970" to "020" and then adjust the "MHz" from 4 to 5 -- consuming a fair amount of time. The NRD-515 however tunes smoothly across each interval, going directly from 4970 to 5020 without interruption. In actuality there is a 20 ms break in audio while the synthesizer relocks from 999 to 000; a scarcely noticeable mild click as the set is tuned across that point. The readout automatically increments the change in MHz even before the MHz change knob is turned from 4 to 5. At that point, changing the MHz knob from 4 to 5 doesn't affect the readout; any further change of the knob then switches MHz ranges as desired. This automatic "overrange" effect makes the set tune as easily as any analog set would.

Stability is excellent. The synthesizer stability is derived from a crystal oscillator and upconversion is also stable as no thermally sensitive L-C circuits are involved in tuning. It is possible to tune in a frequency anywhere in the receiver's range upon initial power-on and it will still be there hours later. Naturally, no crystal calibrator need be provided with this set. I would suggest, however, if RTTY unattended reception is contemplated, the receiver be left on continuously to allow the BFO to stabilize, due to the extreme frequency tolerance needed. For AM signal reception this is not necessary. This is tremendously useful for "remote taping" (unattended by the DXer) of programs as drift problems are practically speaking, nonexistent. The set even has a "dial lock" switch that disables the tuning knob to guard against bumping or tampering, and to allow calibration of the 1 kHz tuning scale on the knob with the digital readout.

As a change from the NRD-505 type, the internal "Collins" type analog scale has been replaced by the knob-rim scale just mentioned. It ought to be noted that, when the set is first turned on, the kHz readout will be 000.0 and the set will come to life tuned to the very bottom of whatever MHz range had been selected; it will not "remember" the last frequency tuned if power has been off more than a few hours. The readout will absolutely not "bobble" on a 9 to 0 transition, as a counter tied to an infinitely-variable analog receiver would. For reading frequencies by zerobeating, I note that the low-frequency audio response is excellent and beat notes below 50 Hz are easily heard in my Sennheiser HD-414 phones (wired for mono) but audio definitely is not boomy or muddy on the low end. On the BCB the user will note that the preselector we're about to describe is ganged to the BFO knob, and on the BCB it's preferable to check frequencies in LSB or USB mode, in which the BFO does not vary as the BFO knob is tuned. Audio quality is very satisfactory.

RF Circuitry. The receiver has no separate preselector tuning knob on HF reception, nor on Longwave. It is an improvement over the NRD-505 in that a preselector function has been added on BCB reception only, to help eliminate problems noted in high RF density areas. The preselect is varactor tuned and operates only on the range from 600.0 to 1599.9 kHz and it is automatically switched in by relays using signals derived from the synthesizer. That is, whenever the receiver is tuned to the BCB, the preselector kicks in by itself. The preselect tune operates in a manner I'd call "comfortably but not critically" sharp over the BCB and is about as "active" or "peaky" as a tuned high-Q loop antenna is, so good front end selectivity is available when a loop is used on the NRD-515. There is about roughly 10 db insertion loss on BCB due to this filtering but it is not noticeable if adequate signal input is provided.

The antenna input, as mentioned at the outset, is a single SO-239 coax jack. Performance of the 515 is quite good on SW using a 40 foot untuned outdoor wire. A length of only 5 to 6 feet of wire was tried, untuned, but is too reactive to give much signal transfer to the receiver; signals were very weak and obviously the input is not intended for short whip type antennas. The 40 foot wire gives fair results on the ECB and poor on longwave, when run directly into the jack. Average non-local nighttime domestic ECB signals are in the s-4 to s-9 range, generally, and only strong longwave signals are heard at s-1 to 3 except for local beacons. (s-9 is half scale on the meter). It is important to note that this receiver requires a low impedance current source type antenna to transfer power to the set. Performance is very good with such an antenna which can be an amplified loop, or a longwire run through a coupler or what a Ham would call a tranmatch. This is more important at the lower frequencies. Use of a Radio West ferrite loop with preamp gave readings of s-9 on signals that read s-2 with the untuned wire. Similar gains in signal level are apparent on ECB reception when using a loop with coax-fed preamp output. Use of a link-coupled matching network consisting of 2 ferrite rods and 2 variable capacitors gives approximately 4 S-unit, or greater, signal gain on ECB, when inserted into the long wire leadin. (This network was described in NRC DX News in 1968). Although not tried by me, the NRD-515 should be well suited for use with an active antenna system with a whip, powered preamp box and coax feedline arrangement - but as I said, not a "bare" whip. On HF the untuned 40 foot longwire works as well as it does with my Hammarlund HQ-150. Use of a tuned impedance matcher can only help with gain, though the effect may be less noticeable on HF than at MF. No powered preselector type devices seem necessary here. If signal levels at HF are weak, improving the antenna itself is the only cure. (A preselector will just amplify the noise along with the signal). Finally, a bandpass filter such as the McKay-Dymek DP-40 may be considered. Normally it should not become necessary to use, but if the NRD-515 is used in close proximity to a BC station, a ham or a land-mobile base station such as police or fire where overload could be suspected, it will help greatly in such a case. (The DP-40's greatest use is eliminating 910 kHz images from single-con version receivers such as my HQ-150 where for example it totally eliminates the RCI signal on 5055 kHz). I cannot find any instance where the DP-40 helped the NRD-515 at my home. Finally let me just reiterate - an impedance matcher or coupler is strongly suggested for the NRD-515 on HF bands, not so much for front-end selectivity as for signal gain, though it will help in both aspects. Other antenna gadgets seem unnecessary. I can find no evidence of crossmodulation, or images in the receiver. (I do hear a few harmonics, which are radiated and received through the air to me). In high signal areas, the user might try disconnecting the antenna protection diodes (see book). I did not have to do so.

Bandpass Filters. Not counting IF filtering, the RF section provides two 35 MHz lowpass filters. A 1600 kHz highpass filter comprising 9 capacitors and 4 inductors is switched in automatically whenever the set is tuned above that frequency. A 600 kHz lowpass filter is switched in whenever the set is tuned below that frequency. Similarly, bandpass filters for 600-1600 kHz, 1.6 - 3 MHz, 3 to 5 MHz, 5 to 9 MHz and the 9 to 17 and 17 to 30 MHz ranges are switched in automatically when the set is so tuned. Each filter has at least 10 and some much more, L and C components.

Functions. Some discussion of the controls was made earlier. It is worth noting that the set has been designed for the user, with the often-adjusted audio, delta tune, bandwidth and mode switches on the right hand side. Note that the mode and bandwidth switches are totally separate. No SPR-4 type cut shaft modifications needed. Note that in addition to CW and sideband reception, a RTTY position is provided (RFO fixed at 452.79 kHz) for proper audio tones to drive the TU or demod without retuning the main dial. The S-meter reads s-9 at half scale and about "60 over 9" at full scale. S-1 is the minimum reading and weak signals can be copied that are too weak to indicate on the meter. No signals "pin" the meter, a local daytimer on 1520 comes close; powerhouses WNBC and WCBS are about 3/4 full scale. No crowding is noted and pointer action is good on rapidly fading signals (polar flutter on SW; jumbled regional channels on the ECB) and peaking loops is indicated easily. The 0-10-20 db attenuator has an appropriate effect on the reading.

NRD-515 Auxiliary Memory Unit. The receiver is impressive enough by itself. But it also boasts what may turn out to be a fixture on future-day receivers ...but is unique today.

The NRD-505 pioneered the use of frequency memory in HF receivers that were known to the general DXing public. This memory was self contained in the receiver and featured provisions to store 4 frequencies (via a plug in card inside the set). This is somewhat analogous to a public service band scanner in concept, except no actual scanning takes place. The NRD-515 has expanded on this idea by making the memory available as a separately enclosed option which can be seen atop the receiver itself on the first page illustration. It provides 24 selectable positions. Any given frequency - anywhere in the tuning range of the NRD-515 - may be loaded into and stored in any one of the 24 memory positions by pressing the "memory" button. (I would have called this "load" or "store" however). The rotary switch on the NDH selects the position wanted and a 2 digit LED indicator verifies the position chosen. The option of whether the radio is manually tunable or is having its frequency determined by the information previously stored in the memory is chosen by operating the "manual-preset" button - a 2 position locking switch. The radio tunes normally when it is out. When pressed in ("preset") the NRD-515 immediately tunes to whatever frequency the memory has stored at the position selected by the 24-position switch. This is to 100 Hz accuracy, and there is no noticeable gap or settling time. Whatever RF relays are required to switch, do, and the readout immediately indicates the frequency chosen. (Preselector tuning on the BCB remains to be done, as it normally would, though). The user can go in and out of memory mode on any position, or select from different positions by "tuning" the radio with the 24 channel switch, as easily as if he were switching audio.

The fantastic assist this offers the DXer and SWL both, must be seen to be appreciated. I must confess when I received the set, I didn't even hook up the memory until the third day of check-out, as the receiver itself was so engrossing. (The memory takes power from the receiver, via a 28-conductor cable that plugs into the NRD-515 rear chassis). The memory contains 3 AA 1.5 volt batteries and stores selected information when the receiver is turned off and/or the memory unplugged from the receiver.

The DXer will soon find several ways in which the memory can help. Checking parallels is the obvious first thought. Tune by hand to one frequency and call up a memory location for the other; an instantaneous A-B check can be made, even across many megahertz' tuning. Another idea is the concept of, say, tuning for Papua New Guinea on the 90 or 120 meter band. Your favorite 12 or 15 frequencies can be stored just as fast as it takes to tune the NRD-515 to each of them once and turn the selector and hit the store button. It can even be done the night before. When the band (finally?) opens up, just hit the "preset" button and rotate the selector to call up all frequencies of interest, for rapid spot checking and possibly taking logs on several stations at once. (They said it couldn't be done. Now, who knows?...) If desired several locations on the NDH can be used to store WWV frequencies, or CHU or VNG etc. can be checked to see how propagation is doing. If you are into listening, RCI, BBC, Radio Nederland or even WHN 1050 Country can be loaded into memory if you want a break from DXing. I have AFRTS along with 2370.0 loaded into my unit as well, the latter in case Falklands comes in again, I'll have less of an opportunity to miss it. That's a good example of a frequency which is too much trouble to constantly keep re-tuning by hand. In case of a good opening in which several frequencies develop of interest, this gadget can really earn its keep. The MW DXer logging several testers or Special DX Tests will find it just as useful.

The NRD and NDH combination deserve special attention to the handicapped listener, due to the ease of tuning by others who may not be DXers themselves such as caretakers. The individual's favorite stations can be easily called up on the selector switch at a given time and the program heard. It might be worth mentioning; a blind operator might be able to successfully use the set by virtue of the uniform tuning rate of the knob, and the slight "click" at band ends would serve as an audible milepost. Another potentially useful feature deserves mention. Since the memory stores a digital "word" for each frequency, the 4 line parallel information at TTL level for each of the 6 digits is available at the receiver rear deck memory plug. This could quite possibly be tapped off and used to drive a device known as a "talking frequency counter" which has been experimentally written up in the Amateur Radio Press (Ham Radio magazine) in the past year. This concept uses a large IC in which patterns are etched storing a digital representation of the waveform of spoken numbers. A signal can be sent through each junction of the IC in sequence and the information read out at the proper rate, the output is then an electrical analogue of the signal generated by a person speaking into a microphone. In practice, the infor-

mation inside the receiver showing the frequency the receiver is tuned to can be converted to electrical analogues of a man speaking those numbers, and the output listened to on a speaker or headphones. At this point these devices are experimental and have to be hand-constructed but they are possible to implement now, and the reason this is worthy of mention in a NRD-515 review is that, from what I can tell, the information necessary is available to the user without making myriad connections deep inside the receiver.

The memory unit contains six 24 pin ICs marked HM435101VP which are probably CMOS RAMs (of Japamese mfr), six 74126 and two 7447 chips, both low-power Schottky types, and two 4049 chips, along with the discrete parts expected, resistors and capacitors etc.

The receiver has extensive provisions for interfacing with a companion Amateur transmitter such as automatic muting, VFO slaving etc. This is covered in the manual and not here.

It is worth mentioning that a signal suitable for driving the Heath SB-620 spectrum analyzer is available at test point 13, next to a large metal shield can in the middle of the receiver circuit board, accessible from the top of the set with the cover off. An isolating buffer would be recommended, tho a direct tap (through 470 pf) worked reasonably well. Incidentally the receiver is built on several large boards, the receiver board is accessed from above. The synthesizer board, from below. It is a sea of several dozen ICs and fully as large as the receiver board itself. The front panel parts and power supply are also stand-alone with connecting cables. Many circuit test points are provided. The manual has a block diagram and several pages of schematics (perhaps the block diagram will appear at the end of the article) but no detailed servicing notes; the manual is 30 pages and is comprehensive though some of the English is stilted, and is obviously literally translated from the Japanese.

Problems. The receiver is not designed for portable (battery) operation, and is supplied with only an AC power cord. The user desiring portable operation has three options. 1. A gasoline generator. 2. A DC operated power generator. This is NOT the commonly found "inverter" which is really a switching supply with a somewhat noisy square wave output. That can be a source of hash at RF frequencies, making weak signal reception difficult. Instead consider the type of supply with a low level pure sine wave generator (at 60 Hz) followed by a high power linear amplifier to boost the output to 115 volts. Really, a decent hi-fi amp circuit is all you need. Popular Electronics had such a circuit several years ago, for a circuit that could handle 90 to 100 watts, drawing about 15 amps from a 12 volt car battery. This would be by far the easiest way to power this kind of receiver in the field. Another possibility would be to use two batteries in series and drop the 24 VDC through several regulators to secure the voltages needed by the receiver, to wit: two +15 V busses, one of them for audio, a +10 volt buss for the memory and a +5 volt buss. A combination regulator assembly using several 7800 series 3-terminal devices could be made up, and would likely run the receiver without difficulty. I haven't tried this though.

A weak signal is audible on 500 kHz, originating from the synthesizer circuitry. It is maybe $s-\frac{1}{2}$ at the most, but is stronger if a loop close to the receiver itself is used as the antenna. Signals on 1000, 1500 and higher are barely noticeable, only when the antenna is disconnected. The BFO detuning when using CW mode on the ECB has been discussed, with adjusting delta F or using USB/LSB two remedies. The passband tuning works only on CW and sideband modes, and there is no notch filter; selectivity shapes of the filter response curves makes it necessary to tune an interfering heterodyne off one edge of the passband. The 2.4 kHz position is needed for this as the .6 is too narrow for good voice recovery and the 6 too broad to get a moderately pitched heterodyne tuned out. This is my only serious complaint about the receiver but with a 455 kHz IF a notch could be added without too much trouble, so that is certainly no reason to reject the receiver.

So, How Does the Set Stack Up? There have been several reviews of 4 and 5 hundred dollar radios in the DX press lately. There aren't too many \$1000 plus radios around, so the reader is justified in wondering if a set like this is worth the added freight. I've tried to help you make that decision. The next step past this level is the rarified atmosphere of Racal and Watkins-Johnson. I would make a guess that a receiver like the NRD would offer the user 90 to 95% of what the pro models would, at about 25% of the cost. Part of

the big-league price tags the professional-user suppliers get for their merchandise is engendered by complicated circuitry enabling remote-control (by wire line or radio link) of all receiver functions. Imagine a chap sitting just outside London tuning a receiver ...the receiver and its antenna are located in Austria but the tuning knob and loudspeaker are in England. Well, that's one way to get rid of your locals. But it's expensive.

The Watkins-Johnson 8718 General Purpose HF receiver offers 5 bandwidths, of 0.3, 1.0, 3.2, 6 and 12 kHz. Well, there are times the 3.2 might be nice to have for SWling. That could be made up as the option for the fourth slot in the NRD-515. The W-J has the ability to detect the signals the NRD will, plus FM and independent sideband (with module added for that mode). Since there's not much FM on HF, at least by design, that's an option we can live without. The W-J tunes to, and reads out to, ten Hz resolution, with 1 Hz resolution as an option. This presupposes the set has stability to match. This is necessary for rigorous point-to-point service, but it could be considered "overkill" for DXing since there is no way you can separate signals that close in order to copy them. The W-J offers 4 tuning rates (per given knob rotation) vs one rate plus switch for the NRD. This begs the question, how much is your time (necessary to tune the set) worth? In addition the W-J tunes down to 5 kHz (upper limit same as the NRD), has an S-meter that can be switched to measure audio output level (The NRD meter is an S-meter only) and finally the W-J fits in a rack where the NRD is in an enclosed cabinet. (I believe I forgot to mention .. the shielding on the NRD is excellent. With the antenna disconnected, you cannot hear anything leaking into the set itself, a very desirable condition). Finally the W-J has no memory that I am aware of, no panel preselect adjustment at all, and no separate MHz change knob. So in my opinion the NRD, for me at least no notch, does a professional job.

The price is not cheap, but it is within reach of many us who don't want to spend the price of a 1980 automobile on a receiver. At this writing the cost of the NRD-515 is in the \$1400 price class, and the memory is in the \$250 price class. Representatives of JRC have informed Gilfer that the set will be priced out in Yen, and any adverse fluctuation of the dollar vs. the yen will engender a corresponding increase in price, aside from any other increase that may be warranted by purely Japanese economic considerations. Anyone interested in this receiver who believes that the dollar will decline against the yen in the future is recommended to enquire early. Any enquiries should be made to Gilfer at their Park Ridge, N.J. address.

Observations and comments herein are solely my own, and are presented as a service to DX and SWL listeners. This material is not copyright and may be used by others providing the author, and club in which it originally appeared, is cited.

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