

SPEEDX

**THE DX RADIO BULLETIN FOR
ACTIVE SHORTWAVE LISTENERS**

Volume One — # 6

DECEMBER 1971

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Owner's Report on the
Allied SX-190!
see pages 4 & 47!



NEWS and VIEWS

Bill Flynn, Managing Editor, P. O. Box 473, Mountain View, CA 94040

1 **HOLIDAY GREETINGS:** President Art Glover extends his personal thanks and best Christmas Greetings to all the editors, staff and readers of SPEEDX. And ALL OF US would like to join in wishing you and yours MERRY CHRISTMAS - HAPPY NEW YEAR - And the best of DXing in 1972.

2 **SPEEDX MEMBERSHIP:** Twenty-two new FULL MEMBERS were announced as of November 15, 1971:

WENDELL BENEDETTI
ALAN W. BROOKS
BOB BUNDY
BOB BUTTERFIELD
JACK DOHERTY
ART GETZEL
MIKE HARDESTER
GLENN HAUSER
RON LANOUE
RUSSELL LAY
MAC LEONHARDT

JIM LOVELL
ANTHONY MARKS
A. A. MILLER
JOHN D. ROGERS
PHIL SCHNABEL
ED SHAW
WILLIAM SHAW
AL SIZER
DR. RICHARD WOOD
JIM ZAFRANSKY
ROBERT ZILMER

As well as our original
FOUNDING Members, who are:
BILL CALDWELL, M.D.
STEVE d'ADOLF
DON DICKEY
BILL FLYNN
ART GLOVER
STEVE HANDLER
MARK KOUKOL
CHRIS LOBBELL
LARRY LUNBERG
MIKE MACKEN
PAUL MAYO
SERGE NEUMANN
CARROLL "PAT" PATTERSON
BILL SPARKS
DAVE THORNE
JACK WHITE

3 **THE SPEEDX CONSTITUTION & BY-LAWS** is now in print in booklet form. These new members (above) and those listed at right will soon be receiving their copy in the mail. CONGRATULATIONS and WELCOME to FULL MEMBERSHIP.

4 **IN MEMORIAM:** With regret we mention the passing of ROBERT W. FISHER of Los Angeles, Calif. Mr. Fisher was a veteran DXer, an associate member of SPEEDX, and was former editor of the ASIA & OCEANIA SWPC Column for ASNIC.

5 **NEWARK NEWS RADIO CLUB** (215 Market St., Newark, NJ 07101): Thank you, HANK BENNETT, for your kind words about SPEEDX in your October 1971 "NNRC Shortwave Section"! NNRC, by the way, is indeed the "Pioneer of DX Clubs" - ever since 1927! Every month a large mimeographed bulletin covering ALL phases of DXing and the listening hobby is produced and mailed to members of this fine organization. Thanks to Mike Macken for passing Hank's words along.

NEWS from GILFER Associates, Inc.

A new booklet for the SWL titled, "SHORT WAVE BROADCASTS TO NORTH AMERICA" has just been published. Compiled by Dr. Richard E. Wood, this new publication list the times, frequencies, and languages of 38 broadcasters that beam programs to North America. Programs from 6 more broadcasters are also listed, which may easily be heard in N.A. Times are given in either EST or PST, and the listed programs are arranged in alphabetical order by COUNTRY. A Summer edition is planned for release in May 1972. A must - especially for the "ARMCHAIR SWL" who listens for program content.- \$2.00

Also just released is the SWL ADDRESS BOOK "UPDATER" by J. C. Gillespie. Contains 200 additions and corrections to the SWL ADDRESS BOOK (pub. in late 1969). This book gives verification policies of over 650 broadcasters, as well as address information, postal requirements, etc. A MUST for the serious DXer and/or QSL collector. Both the Address Book AND Supplement are available for \$3.50, OR the "UPDATER" alone is available at \$1.00.

FBIS LISTS NOW AVAILABLE - Gilfer is stocking the Foreign Broadcast Information Service list of broadcasting stations according to frequency (Part II). This is the January 1, 1971 edition. Stocking will circumvent the 5 - 8 week delay in order processing through the U.S. Government Printing Office. Price is \$2.00 (plus 50% postage and handling since GILFER doesn't have free mailing privileges).

Joystick/Jeymatch sales suspended— Temporarily - Partridge Electronics has discontinued manufacturing the SM tuner (Jeymatch) and the VFA (Joystick) antenna. A wholly new system - but similar - has been developed and is being tested by GILFER. With new circuitry and styling the JOYMATCH III and lightweight JOYSTICK will probably sell at about \$65.00 (including 10% surcharge). Stocks of these components are not expected to be available until late January - depending on the East Coast del' strike.

Season's Greetings from **SPEEDX**



Dave Thorne



Art Glover



Bill Flynn



Jack White

also (not pictured)

Serge Neumann

Chris Lobdell

Steve d'Adolf

Bob Bundy

Bob Butterfield

Jim Whitehead

Bill Sparks

Mark Koukel

Steve Handler

Mark Konen

HAPPY
NEW
YEAR



Paul Mayo





Editor: Serge C.P. Neumann

December 1971

MERRY CHRISTMAS et al

With Christmas almost here, DXers are preparing to spend more time at their receivers - some of which will be new ones - to try and log some of the rarer stations in both Africa + Central/South America, that may be operating on extended schedules.

Some overall hints: continually + carefully check the tropical freqs such as 3.0 - 3.5 MHz, 4.7 - 5.1 MHz and 5.8 - 6.3 MHz. These will be the ones to net your greatest results.

Check on Christmas Eve, Christmas Day, and New Year's Eve and Day.

Under whatever circumstances you spend Christmas - may it be a very Merry and Good Christmas!

IT'S YOUR 11 CENTS
SPEEDXers Speak Out

Father Jack Pejza's comments regarding the status of BCB DXing and its relationship with SWBC listening (and SPEEDX)(see Nov. "DX Montage"), brought some interesting responses:

First, Don Jensen: "With all due respect to Fr. Jack Pejza, his comment that BCB DXing 'is a much more difficult hobby than shortwave,' is nonsense. If he bases that on comparisons of BCB and SWBC DXers' country counts, I could accept it only if he concedes baseball is a tougher game than basketball because fewer points are scored. I suspect Fr. Jack, because of his deep interest in foreign BCBing and little direct contact with SWBC listening, is comparing the difficulty logging TA and TP (trans-atlantic and trans-pacific) medium wave stations with hearing common overseas shortwave outlets. By the same token, but equally fellacious, I could maintain that SWBC DXing is more difficult because a shortwave listener finds it tougher to log Timor, Mauritius and scores of other rare stations, than does a BCBer tuning WGN, KDKA, WWL and the like. Compare apples with apples, Fr. Jack! For SW + BCB DXers of comparable experience levels, the question of which phase of the hobby is more difficult is a toss up."

(continued next page, Column 1)

**A SPEEDX subscription makes
an ideal Christmas gift...**

(why not surprise yourself this year ???)

A QUICKIE EDITORIAL
A Word of Thanks

With this issue, SPEEDX has reached its 6-month birthday. It is no surprise that SPEEDX has come such a long way -- not when you have people such as yourself supporting it.

On behalf of "DX Montage" and all the SPEEDX crew, thank you for your consistent help and support!

HEATH COMPANY + DAN

"Listeners Digest" Editor, dapper Dan Ferguson (see Nov. FRENEX-NASWA) writes that he has been in contact with Heath. Subject: a solid - state receiver, one that would replace the SB-310. Dan says that he suggested to Heath some of the needs of SWBC DXer not currently met by the SB-310. Heath responded - saying that they are working on a new receiver model- ed after the SB-310 - incorporating many of Dan's suggestions.

Great work, Dan! But did they give any hint as to the price?

ALLIED SX-190 and SHAW

First reports of this new receiver come from Ed Shaw.

Initially, Ed had trouble w/cold solder joints, and with the pre-selector, specifically the lower preselector range. He returned the receiver, and was given another one. This one worked fine. Ed says the receiver has excellent sensitivity, and compares to the SW-4A, SX-71 and HQ-100 and HQ-145.

The receiver sells for \$250, less speaker; has direct frequency read-out, and 'rock stable.' As Ed says: 'the entire receiver might be one HOT item to have if the bugs...are ironed out.'

I agree, but wonder if the rcvr can be modified to go down to the 90 MB (3.0-3.5 MHz tropical bands), as from initial looks, lowest crystal blank that could be inserted seems to be the 3.5 - 4.0 segment.

Those who use the SX-190.....how about it? Also: other reports on the receiver are welcomed.

Submit DX material so that it reaches the editor not later than the 20th of each month.

DX MONTAGE (2)

YOUR 11 CENTS continued

Andy Kerr: "I think SPEEDX should stay an all shortwave club. We do not need to duplicate the fine efforts of the NRC and IRCA. These clubs are both going great. The NRC has several projects going on right now, all of which will be very helpful to the DXer."

Alan W. Brooks, writes: "I wonder if a BCB section for SPEEDX would accomplish anything with several clubs of major proportions covering MW DXing so thoroughly..."

COMMENT

I think Andy Kerr has raised something worthwhile to ponder. And that is this: Of all the SW clubs going, how many aren't duplicating each other's efforts? I'm including SPEEDX and all clubs when asking this important question.

What purpose does each organization serve? Why is it here? What function does one club have that another doesn't have? Some pretty difficult stuff to ascertain.

With that in mind, think of any club - and see if you can determine what purpose it has. You'd be surprised at what you (won't) find!

THE "Voice" AT KAVALA
Robert Butterfield

It is probably true that this site will not be completed until mid '72, however, in my latest FREQUENC SCHED from the Engineering Manager of the Voice of America, I find listed freqs and times for Kavala (Greece). Suspect that these are test xmsns that will occur sometime in the Nov. 7 to Mar. 4, 1972 period. Whether listed schedule is for tests or reg. xmsns, wasn't indicated. But here's the info:

13.00 - 18.00 GMT	6085 kHz
18.00 - 22.00 GMT	6140 kHz
15.00 - 19130 GMT	7285 kHz
18.00 - 22.00 GMT	7285 kHz

T A P E S T U F F

Item on right from PLAYBOY via Steve P. d'Adolf. I've heard various conflicting reports. Tape sponders: any suggestions??

in stationed overseas and would like to send home some tapes that I've recorded.

Friends tell me, however, that the package will be X-rayed somewhere along the line and that this will erase the tapes. Other friends say that erasure by X rays is impossible. What's the scoop?—E. K., APO San Francisco, California.

According to the Ampex Corporation, one of the larger manufacturers of tapes and tape recorders, you can test easy X rays are far too high on the frequency spectrum to damage your tapes.

Peru Places Clamp on TV, Radio Stations

LIMA, Peru, Nov. 11 (NYT).—The revolutionary military government of Peru placed all television and radio stations under effective state control by decree yesterday.

The general telecommunications law, as the measure is designated, is the most sweeping formal state intervention in the direction of broadcasting yet imposed in Latin America outside Cuba.

Under the new law, the state is to acquire "at least 51 percent of the shares" in all television stations, and 25 percent of the interest in radio outlets.

The new law requires all station owners and employees to be Peruvian born. Foreign entertainers and other personalities will be permitted on programs only at the convenience of the authorities. Owners of the stations must live at least six months of each calendar year in Peru.

All the stations are to be placed in "worker communities" where employees are to receive one-quarter of all profits in cash and stock each year. Employees are to share in the management of the stations.

Thanks go out to **John Rogers-UK + Alan Brooks** for this item....
(NYT + UPI story)

"WHAT OTHERS THINK..." PART THREE)

by
Oliver P. Ferrell

Within the past 9 months there have been two major conferences in this country on international shortwave broadcasting. The first was held in Washington between November 6th and 8th (1970). The second was held at Ohio State's Center for Tomorrow between April 23rd and 25th. The list of participants at these conferences reads like a WHO'S WHO of international shortwave. Attending either or both conferences were people from the BBC, R. Japan, All-India Radio, R. Tanzania, the UN Radio, R. Belgrade, R. Finland, CBC, the FEBC, VOA, ORTF, etc. etc.

To my personal knowledge, -- NO -- "practicing and knowledgeable" SWL's were invited to the Washington meeting, and only Richard Wood and I were invited to the April meeting. Because of prior commitment, Richard could not attend and I did go, more or less, as my last 'official duty as editor of (PE).

The symposium speakers at both conferences presented fascinating views about international shortwave broadcasting - the problems of frequency congestion, jamming, programming, relay transmitters, emerging nations, and audience reactions. However, these speakers were addressing an audience that had minimal knowledge of shortwave + humorous remarks about the 'sweetness and light programming from Monrovia'--- that's a quote --- 'the yodelling from Berne'---that's another quote, or the emergence of Albania as the seventh largest international broadcaster (another quote), or even mention of Radio Station Peace and Progress, simply fell on deaf or uncomprehending ears!

Continued - NEXT MONTH

Utility Handbook is still
available at discount -
a great SPEEDXTRA for you!

ANARC NEWS

BILL SPARKS

1100 Hearst Building,
San Francisco, Ca. 94103

AWARDS COMMITTEE: ANARC Awards Committee chairman Dan Ferguson is now ready to accept nominations for the 1972 ANARC Man of the Year Award. This top ANARC award is made each year in recognition of the recipient's outstanding and consistent contribution to the clubs, DXing, and the hobby in general. Nominations for the Man of the Year Award, as well as nominations for the periodic ANARC Merit Awards, should include a letter giving complete details, four carbon copies of the letter, and a self-addressed envelope. Nominations for either award may be made by any member of ANARC affiliated clubs. The address for nominations for either award is: Dan Ferguson, 1521 Smith Road, Apt. 7, Charleston, West Virginia 25314.

1972 ANARC CONVENTION: A fourth bid to host the 1972 ANARC Convention has been received. Jerry Berg, Steve d'Adolf, Chris Lobdell, and Mike Macken have invited ANARC to hold its '72 convention in Boston.

Among the advantages of the Boston site which they point out would be the easy accessibility to the heavy concentration of DX'ers on the East Coast. Also, the National Radio Company is located in Boston. The WNYW transmitter site is on the south shore of Boston. These offer possibilities for displays, talks, or field trips. The Boston group has suggested late July for the convention but has not yet selected the exact weekend.

The three earlier bids were published in this column last month. They are: Quebec City, Quebec; South Florida (probably Coral Gables); and Miami, Florida.

INTERNATIONAL RADIO CLUB OF AMERICA: Percy R. Kestevan is the newly elected president of IRCA. His address is 13112 134th St., Edmonton 44, Alberta, Canada. However, all correspondence to IRCA should be sent to 6059 Essex St., Riverside, California 92504.

ANARC FINANCES: The Newsletter contained a statement of the financial condition of ANARC for the past year. It shows a cash balance on Oct. 7, 1970, of \$207.70; cash receipts for the year of \$272.79; expenditures of \$133.55; and a present cash balance of \$341.98.

ANARC CENSUS DATA: Since the Newsletter was brief this month, I have some space to present some of the data recently published by the ANARC Census Committee. The basis is the ANARC Census commenced two years ago. The full report is too lengthy to be included, but some of the highlights are as follows:

Data on DXers age and sex shows that we can only claim about 2% of the fair sex, and about the same percentage of the ladies are club members. Over 1/2 of the members of ANARC clubs are under 25 years of age, 15 and under 10%; 16-20 31.5%; 21-25 14%; 26-30 12%; 31-35 6.5%; 36-40 5%; 41-50 8%; over 50 13%. Non-club members were even younger with over 60% being under 20.

What type of DXing is most popular? ANARC club members reported SWBC by 84%. MW/BCB is second with 63%, then ham bands 33%, utilities 22% and TV 17%; FM 16%, longwave 11.5%. Those replying via HCJB and R. Nederlands were almost 100% SWBC DXers with 11% also MW and 11% hams. Those answering via Electronic magazines showed SWBC 82%, MW 33%, hams 34%, with very little DXing on the other bands. 80% of the club members do not hold a license of any kind; 8% are ARO's, 12% are CBers.

Some data on types of receivers was included, but without mentioning specific brands. Thus close to 1/2 use communications receivers priced at less than \$125. 14.5% use non-communications receivers; 33% use the more expensive types of communications receivers. About 4.5% use surplus or home brew receivers.

Konen's DX Korner

TUNING IN THE "DARK CONTINENT"

by Mark S. Konen

Africa, the "Dark Continent", is a veritable gold mine for logging new catches, especially this time of year, as one can really increase his totals by listening to this intriguing continent. But by no means am I implying that DXing Africa is an easy chore! It's one of the trickiest and most challenging areas to tune. Africa is a land of over 50 countries with an even bigger amount of sw radio stations. Some stations, of course, are easy to tune, like the more technically advanced international broadcasters such as Radio Cairo and Radio RSA. Most stations, however, are small domestic regional stations which are intended specifically for the use of the inhabitants of that country or region. Many countries formerly very difficult to log have been made easier with the coming of the relay stations. A number of large international broadcasters have built stations in Africa and other parts of the world to make their signal easier to hear in that area of the world. For instance, Deutsche Welle-Rwanda, Voice of America-Liberia, and the latest, Radio Nederland-Malagasy. Hearing these relay stations will of course up your totals, but for a real challenge why not try the regional stations of those countries like Radio-diffusion de la Republique Rwandaise, ELBC Liberia, and Radio Television Malagasy. They're a heck of lot tougher to hear and a lot more rewarding to you to be able to hear and even verify them. While the relay stations are fine, I feel that they are not true representatives of that country and its people.

While earlier I said Africa is a land of over 50 countries, it is also a land of over 50 cultures, so you can expect many differences and similarities in the program content of each station. With all these different cultures, you can easily find European influence in the language. Many nations, if not all, seem to have some French background and use French as a principle language. Two countries--Angola and Mozambique are very notably Portuguese as they were colonized by the Portuguese. In North Africa, Arabic has been the dominant language for thousands of years. In that area also, French is very widely used as the French held much of North Africa for a time. Spanish influence in Africa has been slight. Only a few countries notably Spanish Sahara and Equatorial Guinea speak Spanish. The English language can be heard in quite a number of countries such as South Africa, Rhodesia, Malawi, Gambia, and Botswana to name a few. But most important and widespread, are the many vernacular languages spoken in these countries.

When reporting to these stations, write reports in the European language that is spoken in that country. Don't use English unless you are positive it will be understood. Most stations require return postage as they can't afford sending out QSLs and other material to listeners. Most will accept IRCs but in some instances it may be better to use mint stamps instead.

So for an interesting and challenging way to add new countries to your growing totals, you will find it extremely rewarding and a pleasurable experience in tuning the nations of the "Dark Continent"

Good luck and DXing,

Mark
Konen

COMMUNICATIONS HANDBOOK - 1972

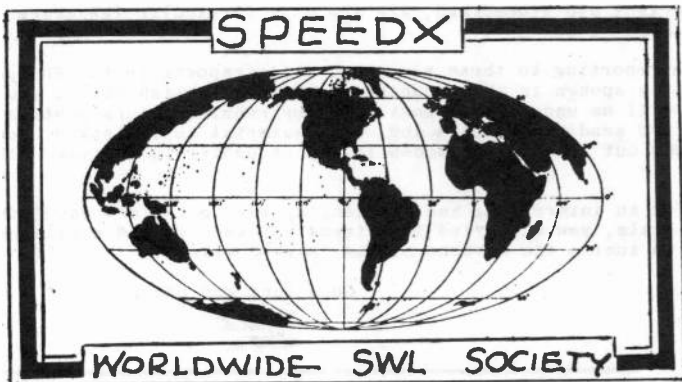
The 1972 edition of Popular Electronics COMMUNICATIONS HANDBOOK is new on the newsstands. Price is DOWN! - from \$1.50 last year to \$1.25 - 150 pages. 17 pages on SWling/DXing by Dr. Richard E. Weed; 4 pages on T.V. DXing by Clem Hauser; plus sections on CCB, Utility DXing, Amateur (HAM) Radio, CB, and many charts, diagrams, and photographs, (like the one on the back cover is WOW!)-(how can we get her to join SPEEDY?) Also many ads, and a review of SWL & Ham equipment. A nice word about SPEEDY by Dr. Weed on page 23!

SPEEDX OFFICIAL INSIGNIA SELECTION



SPANS THE WORLD

NUMBER 1 Developed from a pencil sketch by Steven J Handler



NUMBER 2 Developed from a paste-up by Larry Lundberg.

Insignia Select. (cont.)



NUMBER 3 An original ink drawing by Alan Brooks.

Mr Brooks also forwarded the following: "Just as the backdrop for the activities of SPEEDX is the World, so is the background of this proposed insignia. Around this world is the circle of friendship with which DXing encompasses the globe in a common bond. The vertical arrow denotes the upward aims of SPEEDX as an organization, while the horizontal arrow indicates forward direction for the individual DXer or SWL through the progress in the activity that SPEEDX represents. Finally, of course, the radio rays at the top tie the activity to its source.

The final selection of the SPEEDX official insignia is in your hands. To cast a ballot for the design of your choice, simply mail a card or letter not later than 31 December 1971 to the Chairman of the Board indicating your preference. The address is:

Mr Art Glover
2318 South Laurel
Port Angeles, Washington 98362

SPONSORSHIP PROGRAM - The SPEEDX BCD has determined that the SPONSORSHIP PROGRAM should come under the direction of the Business Manager, Dave Thorne. He has in turn, appointed a "SPONSORSHIP COMMITTEE" of three. They are: Mike "DOC" Hardester, 401 Birchwood Court, Mediate, CA, 95350 (chairman); Anthony "ACE" Marks, PO. Box 521, La Grande, OR 97650; & Jack Deherly, Apt. 204, 711 W. Ceta, Santa Barbara, CA 93101.

The objective of this committee is to administer the special funds set aside for helping needy and deserving SWLs/DXers. If you know of someone, who would like to receive SPEEDX, but for financial reasons, is unable to do so, you should contact one of the committee members listed above. For more details contact Mike "DOC" Hardester.

PROPAGATION

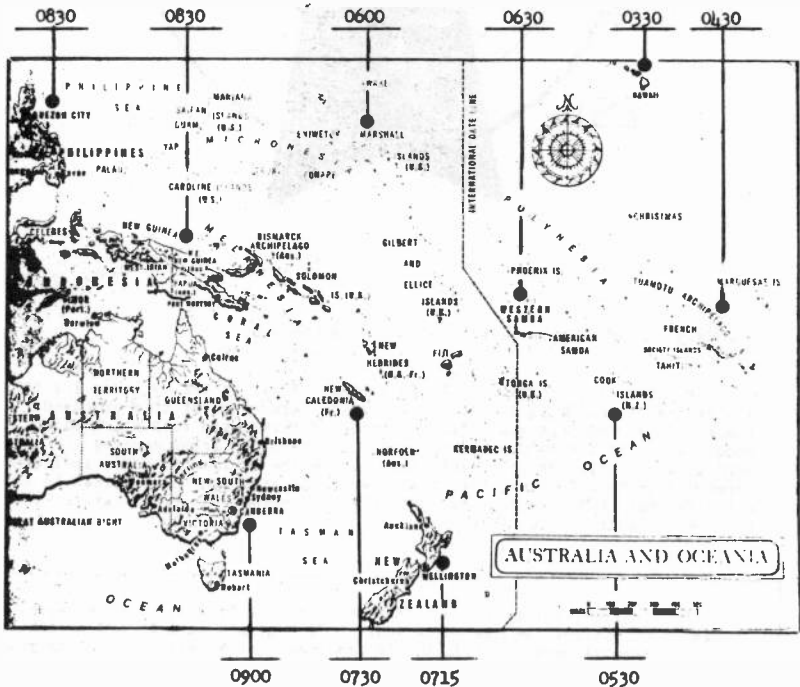
JACK WHITE
780 NW WALLULA
GRESHAM, OREGON
USA 97030

PACIFIC ISLE DX ON 60 & 90 METERS

With the SPEEDX SWEEPSTAKES now in full swing, much DX activity is being directed westward into the blue Pacific in quest of flea-powered outlets upon some sunny island shore. Since most of the broadcasters, as well as many of the utilities stations, in this particular category operate on the lower shortwave bands, we have prepared a guide as to when suitable propagation into this area on these bands may be expected.

Since long distance low-end reception is primarily a matter of having a darkness situation across the entire signal path, any hour that both the transmitting and receiving site were experiencing nighttime will fit the bill. The reader should need no assistance in determining when it is dark at his own location, but varying seasonal patterns make it a bit more difficult to discover just when the sun sets in some other section of the world.

The map below shows the Pacific/Oceania region with arrows directed to more specific points. Each of the arrows is tagged with a time value which represents the approximate sunset hour (in GMT) for that location. Since the darkness "shadow" travels from east to west, low-end reception from these locales may be expected after the times indicated and continue until the sun rises at the listener's location in North America. All that remains then is to consult scheduling references to learn which desired Pacific stations are on the air during that period....Simple no? We shall see.



Next month we'll even up the score a bit and have a look the other way into Africa. Although the values shown are approximate, they will hold for both the months of December and January. Good hunting and a very MERRY CHRISTMAS to all.

SWEEPSTAKES NOTES

Reports reaching this section indicate the interest is still running high on the really different DX contest. For a refreshing change, SREEM is sponsoring SWL competition on a basis other than mass loggings. In addition, there are nine categories related to individual skills and/or interest that may be entered. With loggings through 28 February 1972 being eligible, there's still plenty of time to bring in a winner, even if you haven't started yet. For complete SWEEPSTAKES rules and details, see the October 1971 issue of SREEM or write the Projects Coordinator for a copy.



WORLDWIDE PREDICTION CHART

December 1971

GMT	RCVR ZONE	SOUTH & CENTRAL AMERICA	EUROPE MID EAST N AFRICA	CENTRAL ASIA FAR EAST	SOUTH & CENTRAL AFRICA	AUSTRALIA SOUTH PACIFIC
0000 to 0300	E	31G 49G 60G	25F 31F 41F 49F	16F 19F 25M	31G 49G 25F 60F	19F 25M
	W	25G 31G 49G 60F	31G 25F 41F	19G 16F	25G 31G 49F 60F	19F 16F
0300 to 0600	E	49G 60G	31G 49G 41G	25F 19M	31G 49G 60F	25F 19M
	W	49G 60G	31G 41G 49G	25G 19F	31F 49F 60F	25G 19F
0600 to 0900	E	49G 60G	31G 41G 49F	31G 49G 25F 60F	31F 49F 60F	31G 49F 25F 60F
	W	49G 60G	41G 49G 31F	31G 49F 60F	31F 49F 60F 25M	31G 25F 49F 60F
0900 to 1200	E	49G 60G	31G 41G 49F	31G 49F 25F 60F	25F 31F 49M	31F 49F 60F
	W	49G 60G	31F 41F 49F	31G 49G 60G	31F 49F	49G 31F 60F
1200 to 1500	E	31F 49F	19G 16F	19F 16F 25M	19G	31F 25F
	W	49G 31F 60F	25G 31G	31G 25F 49F 60F	25F 19M 60M	31G 49F 60F
1500 to 1800	E	19F 25F	16F 19F	19F 16F 25M	19F	NIL
	W	25F 31F	19G 16F	19G 25F	16F 19F	25F
1800 to 2100	E	19F	16G 19G	19F	19G 16F	25M
	W	19F	19G 16F	19G 16F	19F	19F 25M
2100 to 2400	E	19G 25F 31F 49F	19F 25F 31F	19F 25F	25G 19F	19F
	W	19G 25G 31F 49F	25G 19F	19F 16M	19F 25F	19F

RCVR ZONE indicates the listener's region. E represents EST & CST time zones, and W is for MST & PST time zones. Reading down to the proper GMT and RCVR ZONE and then across to the area from which reception is desired, will indicate the SWBC band(s) most likely to be open at the time. Quality of the openings is given by G, F, M...Good, Fair, and Marginal respectively.

EYEBALL QSO: Andy Kerr is scheduling a get-together at his home on 15 January 1972, and extends a hearty invitation to all Oregon SWLs and DXers to attend...regardless of club affiliation and bands of operation (Andy doesn't mention it, but it is presumed the guest list is also open to enthusiasts from Washington and California...provided their passport is in order of course). Full details will be forthcoming or may be obtained by writing to: Andy Kerr, PO Box 322, Creswell Oregon, 97426. We'll see you there.

SWBC DX - Western Hemisphere

-EDITOR-

E.J. "Jim" Whitehead
177 Pine Ridge Road
Reading, Mass. 01867



-REFRAIN-

-No hay nada más asustando que la ignorancia en acción- anónimo

As is perhaps obvious, there will be no loggings from the Americas this month despite the receipt of a record number of reports. Why, you ask, are there no loggings and who is this fellow Whitehead whose name appears as editor? The answers to both these questions will fill the remaining space as will a brief discussion of your new editors views on DXing the Americas.

The news that Pat Patterson was stepping down as editor of the "Americas" section of SPEEDX came as quite a surprise. Even more of a surprise, however, was the news that, as the new editor of this section, a deadline of 27 November would have to be met. This news was received, incidentally, on the 22nd of November and was a real shocker since only two days previously the latest issue of SPEEDX carried the word that the November issue was to be the next to last column for Pat, not the last.

With a holiday just prior to the deadline there appeared to be no reason the deadline could not be met. This thinking was reinforced by the knowledge that Chris Loddell, my next door neighbor almost, had the loggings. Chris is also familiar with SPEEDX procedures so it appeared that only a small panic would be required to meet the deadline. But, Chris was as confused as your new editor after reading the November SPEEDX. On one hand he had a letter from Bill Flynn and loggings and, on the other, word that Pat would be doing one more column. Confused, Chris did the natural thing. He dumped the apparently useless reports in the circular file. By the time word got to Chris that I was to have the reports, the ever so efficient Reading Sanitation Dept. had carted the loggings to the new incinerator. So, as the reports went up in smoke, so too did any chance of meeting the short deadline with a column containing loggings.

Rest assured, however, that in the future all reports sent to Reading, Massachusetts will be duly recorded in SPEEDX before being relegated to the local ash heap. Space permitting, all bonafide loggings will be reported if received on or before the deadline which will remain the 15th of the month. Once again that new address for Americas loggings is

E.J. "Jim" Whitehead
177 Pine Ridge Road
Reading, Mass. 01867

I should, of course, say something in the way of an introduction. Trying to describe oneself without sounding like a braggart is perhaps the most difficult task a writer faces. Nevertheless, I shall try to scratch out a few lines so that you will know a little about the man behind the typewriter.

Like Bob Bundy, I am twenty-seven years old and I have been an ardent DXer for about 3 1/2 years. But there the similarity ends. I am married and have two children, Jimmy age 4 1/2 and Cindy age 2. Our home, in snouting distance of Chris Lobdell, is located about fifteen miles north of Boston.

I am employed as a Proposal Manager by the Badger Co. Inc., a wholly owned subsidiary of Raytheon (Hi Stevel). Badger is an international engineering contractor specializing in the design and construction of petroleum refineries and chemical plants. My five years with Badger have been particularly rewarding and international mix of engineering talent in Badger's employ has been an invaluable aid in obtaining veries from around the world.

I hold a B.S. in Chemical Engineering from Penn State and an M.B.A. from Northeastern University where I am currently enrolled in an elementary Spanish class two nights a week. The spanish is here to keep my ex osure to the language fresh than it is to learn the language. As I am sure Dr. Wood will agree, I find that I lose much of what I have learned if I don't keep using it. In a foreign language this is of particular importance.

Well, that is enough about me. I should note, however, that I use a REALISTIC DX-120 receiver and a half wave folded dipole for 60 meters oriented to favor Latin America. I also use a Sony TC-910 portable tape recorder at 3-3/4 IPS, a DXing tool I wouldn't be without.

As I near the end of my first column, I feel it is appropriate to outline a few of my thoughts on how I view my role as an editor and what you the reader should expect from me in the future. At the same time, I want to let you all know that I am open to constructive criticism and comments at all times and that I will endeavor to give you the reader the column you want.

I am a firm believer that, unless you hear a clear ID from that DX catch, you can scrap it. Thus, when an ID is heard with a logging I would expect you would report it. This benefits all DXers who are then able to more positively identify those elusive Latin Americans.

This, of course, brings up the subject of imagination. I have been as guilty as the next guy in trying to read wording that just wasn't there into an ID. So, when a logging is tentative or doubtful, I would expect it to be so indicated. Occasional reports from Charlie Loudenboomer, however, will not be rejected unless in poor taste.

One final note: I plan to continue, as long as my supply lasts, the spanish phrases at the beginning of the column. In addition, I plan to insert, as space permits, some tidbits that may be of interest to the Latin America DXer. This will include network hoopups, common programming, station data, etc. and I would appreciate receiving any hot little tidbits you can lay your hands on.

The news of the death of Mr. R.W. Fischer, former ASMLC Asia/Oceanic editor is a shock. His contribution to DXing will be missed. His dedication should inspire us all.

73's
Jim

ON BEHALF OF THE SPEEDX STAFF...

On behalf of the Staff of SPEEDX, I wish to express our appreciation and gratitude to CARROLL R. "PAT" PATTERSON for his support and contribution to the founding of SPEEDX, as well as the splendid job he has done as editor of SWBC DX "WESTERN HEMISPHERE" for the first 5 issues of the bulletin. Pat was one of the "founding members", who through their desire to establish a truly quality DX organization and magazine, made SPEEDX a tremendous success! Thanks Pat, for a job well done. We will all be looking for reports from you, Amigo!

Dave Thorne

Dave Thorne - Bus. Mgr. SPEEDX

SWBC DX - Europe / Africa

Steven P. d'Adolf
16 Westgate Drive
Apt. 201
Woburn, MA 01801
U.S.A.

Frequencies are in khz****Deadline: 15th of the month**** Times are in GMT
Europe

ALBANIA

6200 0135 R. Tirana: nx in Eng (fair 10/22; Doherty-CA);(good 0430, 10/23; Shaw-PA);(good 0245, 11/2; Zilmer-WI)
9500 1930 R. Tirana: Eng nx, cmtry (fair 10/24; Zilmer-WI)
9780 0200 R. Tirana: Port. ser. w/some QRM from ORP on 9770. ID as "Fala Tirana, Fala Tirana." (fair 10/27; John Perry-IL)

ARMENIAN SSR

4930 2030 R. Moscow, EREVAN: Russ, mx, s/off @2100 (fair 11/2; Rogers-England) John, did you hear an ID? How do you know it was Erevan? SPD
9735 0325 R. Yerevan, Armenia: Eng nx, ID: Voice of Yerevan, s/off @0328. At 0330 R. Moscow s/on and anc. 9.73, measured 9.735 (strong 28 Oct; Mappin-WA)

AUSTRIA

6155 0729 ORP, Vienna: report from Austria in Eng (v. good 11/7; Lovell-KY);(poor 0105, 10/27; Doherty-CA);(v.good 0356, 10/28; Ralph Perry-IL);(good 0500, 10/28; Shaw-PA);(good 0020, 11/3; Zilmer-WI)
15230 1900 ORP, Vienna: s/on w/IS fol by Ger E. Afr ser (poor.11/3; Shaw-VA)

BELGIUM

21460 1330 RTB, Brussels: Fr Sunday sports, mx (good 11/7; Zilmer-WI)

BULGARIA

9700 2359 R. Sofia: Eng to NA, IS & ID, into nx at 0001 (fair 10/17; Glover-WA);(good 0400, 10/31; John Perry-IL);(good 0400, 10/16; Shaw-PA);(good 0420, 11/1; Zilmer-WI)

CZECHOSLOVAKIA

5930 0300 R. Prague: Eng nx (good 11/1; Zilmer-WI)
11990 0300 R. Prague: IS, Eng prog anmts (fair 10/22; Koutnik-KS)
15265 1800 R. Prague: Eng mailbag show (fair-poor 11/14; Betz-CO)
17840 1400 R. Prague: Eng Magazine of the Air //15445 poor 10/24; Zilmer-WI)
21735 1600 R. Prague: Eng Weekend Music Box to Afr and Asia (good 10/23; Zilmer-WI)

DODECANESE IS

7110 0530 VOA, Rhodes: pop mx, Eng lesson, unk lang but Eng ID, s/off @0600 (fair 10/26; Doherty-CA);(fair 10/17;Leonhardt-IN)

FRANCE

7160 0515 ORTF: nx (poor 10/25; Betz-CO) George, what language? SPD
15120 1910 ORTF: Fr discussion w/two men, Fr mx (strong 10/21;Mappin-WA)
17720 2055 ORTF: Eng nx to Africa (good 10/22; Etherington-MO);(good 2030, 10/23; Zilmer-WI)

GEORGIAN SSR

5040 1545 R. Moscow, Tbilisi(listed):talks in Russ (fair 10/29;Rogers-England)

GERMANY, EAST

5955 0230 RBI: Eng nx (fair 11/2; Zilmer-WI)
9500 0215 RBI: s/on w/IS hrd under Tirana (v. weak 10/23; Shaw-VA)
9730 2015 RBI: Eng nx (fair 10/23; Zilmer-WI)
21520 1430 RBI: Eng mailbag, request mx (good 11/7; Zilmer-WI)
21540 1330 RBI: Eng nx, cmtry.to SEA (good 11/7; Zilmer-WI)
21600 1315 RBI: Eng nx (good 11/8; Zilmer-WI)

GERMANY, WEST

6040 0200 DW, Köln: Eng cmtry to NA (good 10/26; Zilmer-WI)
 6050a 0600 DW, Köln: German nx (good 11/14; John Perry-IL)
 6075 0215 DW, Köln: Eng nx, cmtry, nx from the nx papers, mx (good 10/28; Shaw-PA);(good 0230, 10/21; Zilmer-WI)
 7285 0400 DW, Köln: unk lang, DW IS, some Eng mx (fair 10/30; Zilmer-WI)
 9545 0430 DW, Köln: Eng nx, cmtry, sports //6075 (good 10/16; Shaw-PA)
 9565 0115 DW, Köln: Ger & Eng ID's, mx (good 10/28; Shaw-PA)

GREECE

6044 0430 FBS, Athens: trumpet @0430, Anthem, ID, martial mx, classical mx, time pips at 0500, more mx (poor 10/30; Berg-MA)

HOLLAND

9715 0800 R. Nederland: spotlight (exc 10/14; Mrs. Ely-FL) lang? SPD (v.good 2145, 10/20; Zilmer-WI)
 11730 0930 R. Nederland: Eng cmtry about zoo (exc 10/13; Mrs Ely-FL); (v. good 2145, 10/15; Shaw-PA);(v.good 0520, 11/13; John Perry-IL)

ITALY

6010 0100 RAI, Rome: Eng to NA (poor 11/13; John Perry-IL)
 7275 0427 RAI, Rome: local Eng nx (fair 11/3; Zilmer-WI)
 9575 0120 RAI, Rome: nx, sports, mx, asking for rpts, Eng (good 10/28; Shaw-PA)
 11810 0112 RAI, Rome: Eng nx (good-exc 11/6; Miller-OH);(fair 0300, 11/3; Doherty-CA)
 11905 0405 RAI, Rome: Eng nx, cmtry, current events (fair 10/21;Shaw-PA)

KAZAKH SSR

7240 0520 R. Moscow, Alma Ata (listed): Eng prog (strong 10/22;Mappin-WA)

LITHUANIAN SSR

9610 2243 R. Vilnius: Eng cmtry on movie industry in Lithuania (good 10/15; Leonhardt-IN);(good 2235, 10/17; Doherty-CA)

MONACO

7290 0600 TWR: Eng ser w/ID and s/off (poor 10/24; Stephenson-CA); (good, but slowly weaker 0625, 10/17; John Perry-IL);(fair 0700, 10/24; Doherty-CA)
 7295 0715 TWR: Eng rel cmtry (good 10/26; Doherty-CA)
 9680 0940 TWR: IS hrd till 0940 then Czech rel ser (good 10/26;Shaw-VA)
 11950 1900 TWR: "Voice of Hope" prog in Eng appeared after FEBA s/off on same frequency. Bdcst to ME every Tues and Wed as follows: 1845-1900 in Hebrew, 1900-1915 in Eng (good 10/20; Brooks-NH)

POLAND

15275 1245 R. Warsaw: Eng nx, mx to Afr (poor 10/23; Zilmer-WI)
 17815 1230 R. Warsaw: Eng nx, mx to Afr (fair 10/24; Zilmer-WI)

PORTUGAL

6125 0120 R. Portugal: Port mx, QRM from RN; Bonaire (fair 10/27; Doherty-CA)
 9670 2000 IBRA Radio via R. Trans Europe: Eng ID, asking for rpts, s/off (fair 11/10; Etherington-MO);(fair 1927, 11/16; d'Adolf)
 11835 0400 R. Portugal:Eng nx, cmtry to NA (good 10/18; Shaw-PA)
 11840 0300 R. Portugal:Eng nx, discussion to Canada (good 10/16;Shaw-PA) (fair 0325, 10/22; koutnik-KS);(good 0315, 10/27;Doherty-CA)
 11935 1830 R. Portugal: ID, mx, req mx from US, 1900 gave freq's and nx (good 11/4; Mappin-WA);(exc 0200, 10/29; John Perry-IL)
 17865 1315 RFE, Lisbon: multi-lingual ID's including Eng, continuous mx, nx at 1400 possibly romanian (good 10/23; Brooks-NH)
 Alan, did they announce QTH as Lisbon? SPD
 21495 1345 R. Portugal: Eng prog to Asia (good 11/8; Zilmer-WI)

ROMANIA

6150 0300 R. Bucharest: Eng nx (fair 10/25; Zilmer- WI)
 9570 0215 R. Bucharest: Eng nx (poor 10/25; Betz-CO);(good 0226, 10/18; Glover-WA);(fair 0300, 10/25; Zilmer-WI)

RSFSR, EUROPEAN

- 4825 2156 R. Moscow (QTH unknown): Tonal lang, Oriental ser, talks, s/off, IS, s/on, ID, talks. Moscow and Ashkhabad listed here, any ideas which this was? (fair-poor 10/24; Schnabel-NY)
- 5015 1730 R. Moscow, Arkhangelsk (listed): Russ w/mx (fair 11/7; Rogers-England)
- 5900 0030 Radiostantsiy Rodina, Moscow (listed): Russ, IS, ID w/Russ s/on, mx, talks (fair 10/25; Schnabel-NY)
- 9785 0445 R. Moscow, Erevan: starting 15 min bdcst in Eng Afr ser (good 11/6; Lovell-KY) Jim, how do you know it was Erevan? Also I should have put this in the Armenian SSR list. SPD
- 9800 0430 R. Moscow, Kazan (listed): ID @ 0430, mx, nx (good 10/21; Mappin-WA) Do I assume English, Russ? SPD
- 11820 1450 R. Peace and Progress, Moscow: Eng cmtry, s/off @ 1458 w/IS (good 11/16; d'Adolf-MA)

SPAIN

- 6140 0400 RNE, Madrid: nx of Spain in Eng, mx, cmtry on Spanish art (good 10/23; Shaw-PA);(fair 0315, 10/23; Zilmer-WI)
- 9360 0115 RNE, Madrid: nx in Sp (good 10/21; Doherty-CA);(fair 2200, 10/19; Zilmer-WI)
- 9520 0000 RNE, Madrid: Spanish program (good 10/31; John Perry-IL)
- 11925 0300 RNE, Madrid: s/on w/IS into Eng and Sp alt anmts (v.good 10/23; Shaw-VA)
- 15420 1740 RNE, Madrid: ID and Sp mx (exc 10/28; Getzel-NY);(fair-good 2000, 11/6; Miller-OH)

SWEDEN

- 6175 0030 R. Sweden: Eng SCDX, they have finally found a superb freq for the Eng bdcst to NA at 0030 and 0200 (good 10/27; Ralph Perry-IL);(very good 0058, 11/9; Lovell-KY);(poor .0200, 11/1; Zilmer-WI)
- 11950 1830 R. Sweden: Eng to Afr to 1900 then Swedish till 1930, heard along with FEBA on same freq. Have not heard 11950 announced though (poor date?; Ellsworth-CA)
- 21505 1400 R. Sweden: Eng prog on new freq (good 10/25; Brooks-NH)

VATICAN STATE

- 5995 0050 Vatican Radio: Rel nx in Eng (good 11/4; Zilmer-WI)
- 9615 0102 Vatican Radio: Eng ID then no audio (good 10/20; Glover-WA); (good 0050, 11/2; Zilmer-WI)
- 11725 0039 Vatican Radio: Rel message in Sp (good 11/6; Miller-OH)

YUGOSLAVIA

- 6100 2215 R. Belgrade: being heard here increasingly better as Winter approaches, //9620 not as good (good 10/30; Shaw-VA)

Africa

ALGERIA

- 9510 2210 RTA, Algiers: Arabic talk and chanting (good 10/25; Leonhardt-IN)
- 9685 0715 RTA, Algiers: Fr and Arabic, Arabian and pop mx (good 10/24; Doherty-CA)

CAMEROUN

- 5010t 2150 R. Garoua: talk by OM, anthem and s/off @ 2200, hi QRN (barely audible 10/26; Konen-WI) I'm sure it's them Mark as I have heard them s/off @2200 here also. SPD

CAPE VERDE ISLANDS

- 3883at2220 R. Clube de Cabo Verde, Praia (tent): Port talks, hrd "Cabo Verde" mentioned, covered by hams after five minutes of listening (fair 10/24; Schnabel-NY);(poor 2241, 11/20 on 3885 khz; d'Adolf-MA)
- 3930 0015 R. Barlavento, Vicente: Port w/pop mx, s/off @0104 w/"A Portugeusa" (poor-fair 10/16; Rogers-England)

CHAD

- 4904.5 2224 R. Nat. Tchadienne, Ft. Lamy: native Afr mx and chanting (very poor 10/19; Konen-WI);((tent) poor 2231, 10/21; Ralph Perry-IL)

CONGO ISLANDS

- 7260 0330 OMTF, Moroni: s/on into chanting, int from BBC then at 0400
SABC joins in (poor 10/28; Lovell-KY)
- 7260 0333 OMTF, Moroni: Aaaaaahhhhh!!!! Yes indeed, OMTF heard under-
neath BBC Spanish Service, Islamic chant, Fr and vernacular
ID's, faded by 0350 (poor 10/22; Ralph Perry-IL)
- 7260 0425 OMTF, Moroni: hrd in the clear during break in modulation.
Full two minutes. TA-DAH! just when I thought we'd never
get a chance again. Long rainy season producing some FB long
haul DX out of SA and Indian Ocean (poor 11/4; Shaw-VA)

I'd say the above DXers were a little happy with their catches. Dr.
Hall already has a QSL so what are the rest of us waiting for? SPD

CONGO, DEMOCRATIC REPUBLIC see ZAIRE REPUBLICCONGO, PEOPLE'S REPUBLIC

- 4765 2125 RTC, Brazzaville: nx in Fr, Afr mx @2129 (poor 10/31;
Lobdell-MA)

ETHIOPIA

- 9725 0330 ETLF, Addis Ababa: Eng ID and anmt following prog in Swahili
(poor 10/26; Leonhardt-IN)
- 11910 1900 ETLF, Addis Ababa: All Hause ser, rel prog (good 10/27;
Shaw-VA)

GABON

- 4777 0431 RTG, Libreville: IS at 0431, s/on 0434 w/ID as "La Voix de la
Renovation" (fair 10/29; Ralph Perry-IL);(fair 2203, 10/26;
Konon-WI)

GHANA

- 6130 2115 R. Ghana, Accra: pop mx, Eng anmts (poor 10/31; Leonhardt-
IN);(fair 2200, 10/27; Zilmer-WI)
- 9545 2110 R. Ghana, Accra: Eng w/native mx, ID's (fair-good 10/31;
Miller-OH)

GUINEA, EQUATORIAL

- 6250 2230 R. Santa Isabel, Fernando Poo: Sp, mx prog, anthem, s/off
@2300 (poor 10/18; Glover-WA);(good 2230 on many dates;
Ralph Perry-IL)

GUINEA, PORTUGUESE

For you clandestine buffs Ralph Perry reports that there is a station
signing on at approx. 0615 GMT on 4970 in French, and is a clandestine
operation financed by Emissora Of. da Guine and indirectly by
Portugal. The station, called "La Voix du Front Nationale de
Liberation de Territoire de Guinee" is broadcasting propaganda
against the gov't of Sekou Toure, presumably because of the aid that
Toure's gov't is giving the PAIGC, which is the guerilla liberation
movement in Guinea attempting to throw out the Portuguese from
Portuguese Guinea.

KENYA

- 4915 2055 Voice of Kenya, Nairobi: Afr talks, mx, mixing w/Ghana, off
@2100 aft short anmt and anthem (poor 10/30; Berg-MA)

MALI

- 4783 2215 R. Mali: cora mx, Afr pops and chants, USA pops, Fr anmts,
some vernacular anmts (good 10/21; Ralph Perry-IL)

MAURITANIA

- 7245 0806 R. Mauritania: Arabic chanting, Afr mx, occasional QRM
(fair-poor 11/7; Konon-WI)

NIGERIA

- 4900 2140 NBC, where?: station still heard here and around 0435 after
Juventud s/off but no definite ID yet (Shaw-VA, Ralph Perry-IL)
- 7301 0500 ECSBCS, Enugu: this is not a NBC regional station as I
reported last month but a separate service: SPD. Thanks to
Ralph Perry for the correction.
- 15200 1910 Voice of Nigeria, Lagos: Eng w/Afr mx (good 10/26; Etherington-
NU);(fair 1830, 10/29; Shaw-PA)

RWANDA

15380 2200 DW, higali: Ger industry feature and nx, IS and ID @2230, off at 2240 (exc 10/21; Brooks-NH)

SEYCHELLES

11935 1725 FEBA, Victoria: Eng, Arabic cmtry, rel mx (fair 10/23; Doherty-CA);(fair 1715, 10/25; Brooks-NH);(fair 10/19; Etherington-MO)
 11950 1700 FEBA, Victoria: Eng w/ID after each song, requesting rpts, freq's given (fair 10/25; Willhight-WA);(good-v.good 1700, 11/7; Ellsworth-CA);(fair 1800, 11950; Betz-CO);(exc 1800, date?; Glover-WA);(good 1800, 10/28; Brooks-NH);(fair-poor 1815, 11/9; Etherington-MO)

SOMALI REPUBLIC

6093 0300 R. Mogadishu: s/on, anthem, chants, nx at 0332, sig poor by 0400 t/out (fair-poor 10/30; Berg-MA);(fair 0258, 10/21; Ralph Perry-IL);(poor 0302, 10/24; Konen-WI)

SOUTH AFRICA

4945 2215 SABC, Springbok R.: Eng and Afrikaans anmts, ads, mx (fair-good 10/26; Ralph Perry-IL)
 6075 0358 R. RSA: assumed RSA internal ser w/lang, IS music box and birds, anthem before 0400, then cock crows and into nx (fair 10/20; Glover-WA)
 6080 0345 R. RSA: Eng talk about shipping, nx, mx (good 10/23; Shaw-PA)
 6195 0245 SABC: orch mx, Eng ads (fair 10/22; Doherty-CA);(poor 0405, 11/9; Leonhardt-IN)
 7270 0343 R. RSA: s/on, into Fr prog (fair 10/27; Leonhardt-IN)
 9560 0030 R. RSA: Eng nx, stock rpt (good 10/28; Shaw-PA)
 9695 0130 R. RSA: Panorama, mx, nx to NA & CA (good 10/28; Shaw-PA)
 11800 2047 R. RSA: details? (poor 10/17; Mrs. Ely-FL)
 11900 1400 R. RSA: Eng, ID and race results (poor 11/6; Miller-OH); (good 2100, 10/18; Mrs Ely-FL);(good 2245; Shaw-PA)
 11940 2302 R. RSA: Eng, TC, ID, prog called "Bantu Mx" (10/23; J.Perry-IL)
 11970 0030 R. RSA: Eng nx, mx, stock rpt, //9695,9560 but better (good 10/16; Shaw-PA);(exc 0130, 11/3; John Perry-IL)
 25790 1340 R. RSA: Eng rock mx (good 10/22; Koutnik-KS)

SPANISH SAHARA

7230 0830 R. Sahara, Aaiun: pop tune, still heard down in the mud, lots of local QRM (barely audible 11/3; Shaw-VA)

SUDAN

4994 2200 R. Omdurman: chanting, may be on extended sched for kamadan (good 10/26; Ralph Perry-IL)
 7200 0410 R. Omdurman: Islamic chants under VOA; Is this freq noted year round, or is this possibly for Ramadan (fair-good 10/27; Ralph Perry-IL)
 9505 2201 R. Omdurman: Arabic chanting, station ID as "Sudal El Demokrautiyah", anthem, s/off at 2201 (fair 10/17; Leonhardt-IN)

TANZANIA

15435 1824 R. Tanzania: native mx, Eng and vernac ID's and anmts at 1829, TC at 1839, ID @1859 (poor 11/16; d'Adolf-MA)

TOGO

5047 2115 R. Togo, Lome: Fr and Afr mx prog (fair 10/19; Glover-WA); (fair 2115, 10/29; Shaw-PA);(good till 2302, 10/28; Ralph Perry-IL)

TUNISIA

9595 0500 R-TV Tunisienne: Arabic talk with rooster crow before and after (poor 10/17; Leonhardt-IN)

UGANDA

5026 2102 R. Uganda, Kampala: nx in Eng by man, talk by man and woman (fair 11/2; Lobdell-MA)

UNITED ARAB REPUBLIC

7050 0445 R. Cairo: ME Chorals and chants (good 10/27; Ralph Perry-IL)
 9475 0230 R. Cairo: Eng talks about dancing (exc 11/5; John Perry-IL);
 (good 0230, 10/24; Doherty-CA)
 9850 0420 R. Cairo: Arabic chanting (fair 10/21; Mappin-WA)
 17920 1405 R. Cairo: Arabic lessons by Radio in Eng (good 10/17;
 Leonhardt-IN)

UPPER VOLTA

4815 2040 R.TV Voltaique, Ouagadougou: Fr, Afr songs, drum solos, ID
 at 2100 (fair 10/21; Schnabel-NY);(v. good 2215, 10/21;
 Ralph Perry-IL)

ZAIRE REPUBLIC

11862 0352 R. Lubumbashi: drum IS @ 0352, anthem, ID, variety prog, nx,
 0500 t/out (good 10/22; Berg-MA)
 15245 2200 RTNC, Kinshasa: pop mx, Afr mx, Fr cmtry (good 10/23;
 Doherty-CA);(good 0305, 10/15; Leonhardt-IN)

From the November 8th Time Magazine, supplied by John Rogers:
 "To the present government in Kinshasa, however, the name [Democratic
 Republic of the Congo] unduly celebrated the Bakongo tribesmen who
 reside along the lower reaches of the Congo River. Seeking a name
 to please the non-Bakongo majority, Kinshasa last week officially,
 rechristened the country the Zaire Republic, and the river the Zaire
 River."

ZAMBIA

6060t 0850 R. Zambia, Lusaka: definite Eng and Afr prog rhythms,
 commercials under horrendous carrier just below (poor 11/3;
 Shaw-VA)

DX-CALENDAR: The following holidays might be cause for extended broadcasts
 from the indicated country.

Dec. 6: Independence Day in Finland
 Dec. 9: Independence Day in Tanzania
 Dec. 12: Independence Day in Kenya
 Dec. 13: Day of St. Lucia in Sweden
 Dec. 16: Day of the Covenant in South Africa
 Dec. 18: Independence Day in Nigeria
 Dec. 23: Victory Day in Egypt
 Dec. 24: Independence Day in Libya

Season's Greetings

The following 29 reporters made this months column possible: Jerry
 Berg, Lexington, MA (Heathkit SB-310); George Betz, Denver, CO (Drake
 SW-4A); Alan Brooks, Portsmouth, NH (Realistic DX-150A); Jack Doherty,
 Santa Barbara, CA (Drake SPR-4); Oliver Ellsworth, Los Angeles, CA (Allied
 SX-190); Mrs. Marion Ely, Boynton Beach, FL (rcvr?); Frank Ethington,
 Rolla MO (Allied SX-190); Arthur Getzel, Flushing, NY (Lafayette HA600A);
 Art Glover, Port Angeles, WA (Hammarlund HQ 180A); Glenn Hauser, Von Ormy,
 TX (Hammarlund HQ160); Mark Konen, Mequon, WI (Hallicrafters SX-71); Paul
 Koutnik, Shawnee, KS (Allied Knight-kit R-195); Russ Lay, Va. Beach, VA
 (Hallicrafters S-38C); Lou and Elinor Leistner, San Bernardino, CA (Zennith
 R-7000-1); Mac Leonhardt, Liberty IN (Heathkit SB-310); Chris Lobdell,
 Reading, MA (Drake SW-4A); Jim Lovell, Louisville, KY (rcvr?); J. Russ
 Mappin, Spokane, WA (rcvr?); Albert Miller, Youngstown, OH (National HRO-
 500); John Perry, Westchester, IL (Knight Star Rosmer); Ralph Perry,
 Champaign, IL (Hallicrafters S-85); John Rogers, London, England (Satellit
 210 (Grundig)); Phil Schnabel, Bronxville, NY (Hammarlund HQ-200); Edward
 Shaw, Norfolk, VA (SX-190, SX-130, SX-71); William Shaw, Drexel Hill, PA
 (Drake SPR-4); Norman Stepherson, Long Beach, CA (Hammarlund HQ-180A);
 Jim Willhight, Snoqualmie, WA (Heathkit GK-78); Robert Zilmer, Milwaukee,
 WI (Drake SPR-4 & 2-C); and your editor using a Galaxy R-530.

Congratulations to Ralph Perry writing his own column "On the Bands-
 North America" for the Finlands DX Club International. You North America
 DXCI members get out and support Ralph on his new venture. We don't want
 to see a column of only his loggings. hi!

While I was typing this I was listening to R. RSA. They indicated
 that they will announce the winners of the Jubilee Competition before
 Christmas. They did not indicate an exact date. 73's and good DX!

S*E*A*S*O*N*S G*R*E*T*I*N*G*S T*O A*L*L

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Frequencies are in khz Jan deadline: 15 Dec Times are in GMT

----- ASIA -----

AFGHANISTAN

15265 1815 R Afghanistan: Eng mx at 1810 followed by talk (fair 28 Oct; Getzel-NY);
Eng nx, cmtry, & mx at 1800 (poor 24 Oct; Doherty-CA)

BURMA

5041 1215 BBS, Rangoon: YL Burmese talks, oriental mx past 1223. ID at 1220.
(weak 18 Oct; Perry-IL) (News is that these dudes are finally verifying,
huh! WOW!!! Here's hoping that they continue. Get that BBS report out
today... Perry) ...A BBS QSL was reported in ADXN by a Pakistani DX'er
...Wish they'd verify my report on 955... --BB

CEYLON

11800 1445 R Ceylon: native lang w/native music (fair w/QRM 23 Oct; Doherty-CA)
15120 0205 R Ceylon: Asian commercial sce in Eng w/OM & YL annrs & playing records
--extreme & rapid fading (poor to unusable 20 Oct; Koutnik-KS)

CHINA, P R

3220 1332 R Peking: first pgm home sce w/ martial mx & Chi vocals and //7090//
4990//4905//825//645. 4905 also noted at 2015 (4905 fair, others poor
16 Nov; Bundy-Truk)
3260 1328 Kweichang(WRTH): OM w/ Chinese talk (v weak 16 Nov; Bundy-Truk)
3310 1237 Peking home sce: the Internationale f/brief anmt by YL and off the air
at 1239. First time noted on this freq. (weak 17 Nov; Bundy-Truk)
4500 1135 Urumchi (WRTH): Chi, spirited talks by YL, no ID hrd under VNG 'til
f/out 1200 (poor 24 Oct; Schnabel-NY); Likely the same here w/QRM de
VNG, 3rd harmonic of WS2C, & 12th harmonic of local beacon TKK (v poor
17 Nov; Bundy-Truk)
4815 1301 R Peking: IS & ID by YL & OM as Govorit Pekin and into Russ sce
(fair 17 Nov; Bundy-Truk)
6955 1320 R Peking: Jap sce w/talk in Jap & Chi mx //7480 (good 17 Nov; Bundy-Truk)
9030 2145 R Peking: News in Eng (poor 19 Oct-Zilmer-WI)
9780 0320 R Peking: Eng cmtry on Japan & the imperialists (good 17 Oct; Shaw-PA)
11675 0034 R Peking: Eng talk on land reclamation (good 6 Nov; Miller-OH)
15060 0056½ R Peking: carrier off, back on at 0057½; IS at 0100 (poor 21 Oct; Koutnik-
KS); Eng nx & mx @ 0115 (fair 21 Oct; Shaw-PA)

CHINA, REP

17720 0255 VOFC: Eng talk & oriental mx (poor 24 Oct; Leistner-CA)

CYPRUS

15420 1710 BBC, Limassol: BBC Eng sports roundup (poor 28 Oct; Getzel-NY)

INDIA

7235 2300 AIR Delhi: news in Eng (poor 1 Nov; Rogers-England)
11620 2000 AIR Delhi: Eng nx, cmtry, & mx til 2030 (fair/good 19 Oct; Zilmer-WI)
11710 0015 AIR Delhi: Eng nx & native mx til 0115 (v poor 13 Oct; Ellsworth-CA)
11810 1440 AIR Delhi: native mx & nx, Eng nx given by YL at 1505 (fair 29 Oct; SHAW-PA)
native mx at 1415 (poor 22 Oct; Doherty-CA)
11850 1225 AIR Delhi: Eng pgm preview & Eng nx til 1235 (fair 6 Nov; Zilmer-WI)
15430 1225 AIR Delhi: same details as 11850 (poor 3 Nov; Zilmer-WI) (I believe these
last two 11850 & 15430 are parallel.--bB)

INDONESIA, BORNEO

3294 1259 RRI (Samarinda per WRTH): "Song of the Coconut Islands" IS, 1300 gong
and RRI nx til 1305. Local ID not detected. (poor 16 Nov; Bundy-Truk)

INDONESIA, JAVA

5047 1147 RRI, Jogjakarta: heard w/Eng nx during Sept, but not lately (Perry-IL);
Eng songs & YL anncng in Eng 1150 til about 1158 (fair 16 Nov; Bundy-Truk)

INDONESIA, WEST IRIAN

6193 ???? RRI, Manokwari: a veri received by R Perry for Jan 71 report and dated 14
Oct states that this is correct freq and that other reports from Japan & US
are erroneous! (How interesting!! Nothing hrd this freq 19 Nov--BB)
6279½ 0943 RRI, Manokwari(or what?): Song of the Coccutn Isles IS, 0944 ID by YL which
certainly mentioned Manokwari (fair 19 Nov; Bundy-Truk)
7213 0428½ RRI, Biak: ID by YL, 0429 IS, 0430 ID and then local nx in Indonesian w/
many mentions of Biak in nice midday reception (weak but fair 18 Nov; Bundy)

IRAN

15084 1915 R Teheran: native lang mx & chanting, 1928 ID & nx (fair 29 Oct; Shaw-PA)
15085 1330 R Teheran: this date only w/coverage of 2500th anniversary parade at
Persepolis (fair 15 Oct; Hauser-TX)
...Does Teheran still have a scheduled foreign sce? --BB...

IRAQ

6155 2200 R Baghdad: Islamic chants for Ramadan (super 26 Oct; Perry-IL)
7240 2135 R Baghdad: Islamic chants (good lvl, but heavy ARO QRM 22 Oct; Perry-IL)

ISRAEL

6180 2115 IBA: Eng nx & events roundup //9009(fair)//9625(fair/good) (poor 19 Oct;
Zilmer-WI) (Are sure about the frequency? 6170 has been previously
reported in SPEEDY and was reported in ADMN for 22 Oct.--BB)
9625 2045 IBA: Eng ID, then nx (good 30 Oct; Getzel-NY); 2102 (good 31 Oct; Miller-OH)
2110 (fair 16 Oct; Doherty-CA); 2115 (v good 2 Nov; Leonhardt-IN)

JAPAN

7230 0755 NSB, Tokyo: Jap talk (poor 26 Oct; Doherty-CA)
9505 0715 NHK, Tokyo: general sce w/Eng cmtry (v good 8 Nov; Doherty-CA)
9595 1331 NSB, Tokyo: Jap talk sounded like nx bulletins (fair 6 Nov; Miller-OH)
15195 2158 NHK, Tokyo: s/on IS w/terrible QRM & hetting w/Arab stn--probably Syria
(v poor 20 Oct; Shaw-VA)
15445 0025 NHK, Tokyo: Eng w/ Jap LL best ever this freq (exc 29 Oct; Getzel-NY)
17725 0150 NHK, Tokyo: Eng w/folk mx (good 8 Nov; Doherty-CA)
17785 0000 NHK, Tokyo: Eng news (gen sce--BB) (fair 3 Nov; Zilmer-WI)
17825 2345 NHK, Tokyo: NA sce in Eng w/nx, 0004 Listener's Corner, 0016 mx, inter-
views, stories //15445 (good 15 Oct; Shaw-PA); Talk on Jap fishin/tackle
industry at 0015 (good 19 Oct; Leonhardt-IN)

KAZAKH S S R

10530 2330 Alma Ata: relay moscow home sce til 2359. Then R Alma Ata IS, s/on w/
Kazakh Anthem (?), ID as "Govorit Radiostantsii Alma Ata", piano
concerto (fair ? Nov); //5260 weak w/some UTE QRM // 9250 fair w/UTE
QRM // 9380 v clear w/slight UTE QRM (all from Schnabel-NY)

JORDAN (out of order, sorry--BB)

7155 0346 R Amman: finally seeped through Moscow-7150 and severe jamming (at least
sounds like jamming...) (poor 27 Oct; Perry-IL)

KOREA, NORTH

4772 1243 Pyongyang presumed: YL in Kor w/applause (fair 10 Oct; Hauser-TX);
noted on about 4770½ on 16 Nov--BB
5870 0830 Pyongyang pgm II: QM & YL talk in Kor //6250//6400//655//735//800//1080
(685 conspicuously absent) (5870 poor others fair/good 2 Nov; Bundy-Truk)
6250 0915 Pyongyang pgm II: Kor mx & cmtry (good 6 Nov; Doherty-CA)
6290 0730 Pyongyang (listed): Kor talk, tho a bit early (poor 9 Oct; Hauser-TX)
6540 0835 Pyongyang: Eng nx (poor ?; Kerr-OR)

KOREA, SOUTH

15430 0326 WOFK: Korea weather report in Eng to NA (strong 17 Oct; Kerr-OR)

KUWAIT

15345 1630 R Kuwait: records & cmtry in Eng (good ? Nov; Leonhardt-IN); Eng story
at 1740 (good 2 Nov; Miller-OH)
21685 1430 R Kuwait: Arab chanting & talk (fair 31 Oct; Zilmer-WI)

LAOS

4660 1228 LV du Pathet Lao: Laotian native music//6199 (poor 28 Oct; Hauser-TX)

LEBANON

9540 0230 R Lebanon, Beirut: Eng pgm w/mx & cmtry, into Arabic at 0256--new frequency (poor date ?; Leonhardt-IN)

MALAYSIA

15435 0030 BBC, Tebrau: Eng anmt of XMTR QTH (v good 16 Oct; Shaw-VA); Eng world nx at 0000 (good 3 Nov; Zilmer-WI)

17860 0000 BBC, Tebrau: Eng World nx (//15435?--BB) (good 3 Nov; Zilmer-WI)

MONGOLIA

7260 1035 Ulan Bator Radio(TENTATIVE); Mongolian (?) talk by YL, short phrases of Chinese-like mx, no ID hrd. ARO QRM (poor 24 Oct; Schnabel-NY); Nothing in particular noted this time on 17 Nov--BB

PAKISTAN, WEST

11672 2100 R Pakistan, Karachi: Eng nx & cmtry on India, Pak, & the UN (fair 27 Oct; Shaw-PA) --In Nov SPEEDX, I attributed this transmission to Dacca on basis of Tatsfield listing. I now note in WRTH-SS that both Dacca and Karachi are listed for 11672. Does anyone know for sure the origin of this transmission? --BB

17935 1335 R Pakistan, Karachi: Eng nx & cmtry to M East //21590(poor) (fair 31 Oct; Zilmer,WI)

PHILIPPINES

3286 1310 PBS, DUB4 (QTH ?); presumed stn here w/request pgm for old US pops w/YL hostess in Tagalog(or similar lang), occasional Eng phrases and anmts & many mentions of Manilla (poor 16 Nov; Bundy-Truk)

3345 1248 FEBC, Phil Sce, DZB2; presumed stn w/Eng rlg pgm "Unshackled". (poor w/UTE QRM 16 Nov; Bundy-Truk)

7225 1215 FEBC, Manilla: daily fade in this time w/Eng rlg pgms, ID's & fgy's at 1230 and into Malay (strong 19 Oct; Perry-IL)

15440 1600 FEBC, Manilla: rlg story in Eng (poor 16 Oct; Rogers-England)

RSPSR, ASIATIC

4485 1140 Vladivostok (listed): Russ anmts & classical mx f/out by 1200 (fair 24 Oct; Schnabel-NY)

4885 2330 Moscow Home Sce, Novosibirsk (listed): Russ talk (fair 22 Oct; Rogers-Eng)

RYUKYU ISLANDS

7255 1620 VOA, Okinawa: talk in Chinese (good 10 Oct; Rogers-England)

SABAH

4970 1347 R Malaysia, Sabah: sport nx in Eng, mx, & talk in Eng (fair 25 Oct; Leistner-CA)

SARAWAK

4835 1100 RMS, Kuching: daily past 1200 w/regional mx, C&W, Indo anmts (good 21 Oct; Perry-IL)

4950 1200 RMS, Kuching: nx, 1205 ID in Eng. Fast QSL for rpt on (19 Oct; Perry-IL)

SINGAPORE

11940 1530 R Singapore: GMT+7½ TC, then nx in Eng, 1542 mx 1545 f/out (good 5 Nov; Ellsworth-CA)

THAILAND

7105 1120 Thai TV Co. (TENTATIVE); YL talk in Thai at 1120, flutter & QRM de Indonesian on 7107 (v weak 26 Oct; Perry-IL)

TURKEY

9515 2040 R Ankara: Turkish mx & anmts by YL, anthem & off at 2055 (good 2 Nov; Leonhardt-IN)

UZBEK S S R

4850 1253 R Tashkent: Russian(?), 1300 ID, mx (poor 10 Oct; Hauser-TX)

9600 1215 R Tashkent: Asian nx in Eng (fair 3 Nov; Miller-OH)

11925 1213 R Tashkent: Eng pgm w/political cmtry (v strong 26 Oct; Perry-IL)

Vietnam, NORTH

- 6376 1435 Tay Bac (TENTATIVE per Nov ADDN); talk on VN and Hanoi in SEA lang (VN?), possible IS & ID at 1500 (fair 30 Oct; Bundy-Truk); After pgn of VN (?) mx, ID by YL at 1657 mentioning Vietnam, then anthem and off the air at 1658 (fair 12 Nov; Bundy)
- 7416 1144 Hanoi Home Sce; Asian mx, vernacular annts; tho some days Liberation R is noted here (fine date ?; Perry-IL)
- 10038 2024 VOV, Hanoi: Eng annt & VN protest mx, 2028 Eng ID & off, 2030 back in French (good 16 Nov; Bundy-Truk)
- 10039a 1210 VOV, Hanoi: monologue by YL in Asian lang, UTE GRH (fair 24 Oct; Schabel)
- 12022 2036 VOV, Hanoi: YL w/French talk //10038 (good 16 Nov; Bundy)

YEMEN

- 5805 0300 R Sanaa: s/on at 0300a, ID in Arabic, OH chant in Arabic (unaccompanied); fast fade, gone by 0320 (weak 20 Oct; Perry-IL)

CLANDESTINE

- 7470 7777 Liberation R; militant march mx, oriental mx, talks about guerillas, Cambodia, Vietnam, etc. (in Eng?--BE); net // 7416 which had Hanoi home sce (good 21 Oct; Perry-IL) (The time was omitted but possibly 2200?--BB)
- 9920 1345 Liberation R; still being hrd w/Fr cntry late as 1415 on good clear channel (good 3 Nov; Shaw-VA); R Peking hrd here 18 Nov w/Fr 1300-1400 and a SEA lang (possibly VN) at 1400, no sign of Lib R (good 18 Nov; Bundy-Truk)
- 11695 1700 Payk-E-Iran (pronounced *paachuh eerahn*): hrd daily w/all Arabic and Persian cntry (good 28 Oct; Shaw-VA)

UNIDENTIFIED

- 9645 2055 unID Arab stn: 2055 s/off & who is the Arab here w/Koran prayers til 2255? (v low 30 Oct; Shaw-VA)

- - OCEANIA - -

AUSTRALIA

- 4920 0950 VLN4, ABC Brisbane: (poor 29 Oct; Kerr-OR) How about a few more details?--BB
- 6090 1100 VLI6, ABC Sydney: Eng mx (fair 21 Oct; Zilmer-WI); I often hear hoscov home sce (Irkutsk listed) this frequency--BB
- 6100 1135 R Australia, Darwin: Cantonese sce fair lvl but big QRK de LA on 6095 (poor 26 Oct; Perry-IL)
- 6140 1204 VLN6, ABC Perth: horse-racing live from the track (poor/fair 6 Nov; Miller-OH); same at 1130 (fair 6 Nov; Zilmer-WI)
- 7185 1215 R Australia, Shepparton: Eng mx to SEA (poor 4 Nov; Zilmer-WI)
- 9680 1245 VLR9, ABC Melbourne: Eng w/semi classical mx (fair 7 Nov; Zilmer-WI)
- 11710 1115 R Australia, Shepparton: "World of Hx", 1130 nx & wx, 1140 nx focus, 1205 cntry, 1215 s/off (good 14 Oct; Shaw-PA) (This is MA sce and is now on one hour later per new sked, i.e. 1215-1315 GMT--BB)
- 11765 0700 R Australia, Shepparton: Pac Isle Sce w/"World of Hx" & cntry on UN in Eng (good 29 Oct; Shaw-PA)
- 15240 0758 R Australia, Lyndhurst: w/mx (? 24 Oct; Kerr-OR)
- 15320 2245 R Australia, Shepparton: Eng mx to S Asia (fair 3 Nov; Zilmer-WI)
- 15425 2300 VLN15, ABC Perth: Eng dance music (fair 3 Nov; Zilmer-WI); 2356 mx & wx in the "Morning Show" (fair 4 Nov; Miller-OH)
- 17795 0100 R Australia, Shepparton: Eng nx in MA sce (poor 5 Nov; Zilmer-WI)

COOK ISLANDS

- 7777 7777 This country has never been reported to SPEEX! Who will be first?

NEW BRITAIN

- 5985 0156 VHRH, ABC Rabaal: ship movements, 0158 mx interlude, 0159½ full ID in Eng as VHRH and AbC radio in Rabaal and s/off (v weak 17 Nov; Bundy)
- 5985 0200 R Rabaal: s/on ID and TC in Pid Eng "best ever" for this midday reception tho (v weak 17 Nov; Bundy-Truk)

There is believed to be one HF tx in Rabaal. This is used by R Rabaal on 3385 0600-1300 and 2000-2200 and on 5985 0200-0400 GMT. The same tx is used by the ABC weekdays in its schools broadcast to the Gazelle Peninsula w/call VHRH from 2230-0200 and 0400-0530. The Cantonese/mandarin bcsts previously reported to SPEEX this freq (also monitored here in early Oct but not recently--BB) must have been from a regular R Australia tx tho QTH at this time unknown. --This info from Bob Padula direct and indirectly via ADDN in response to my question regarding this station(s).

NEW CALEDONIA

11710 0700 R Noumea; Fr anmts w/U.S. pop mx (fair 6 Nov; Doherty-CA)

NEW ZEALAND

9520 1015 RNZ, Wellington; Eng music (poor 25 Oct; Zilmer-WI)
 9540 0600 RNZ, Wellington; U.S. pop mx of '30's, nearly buried by R Moscow (poor 8 Nov; Doherty-CA)
 11780 0630 RNZ, Wellington; mx, cmtry on UN in Eng "best ever" (good 29 Oct; Shaw-PA)
 15110 0315 RNZ, Wellington; Eng music (fair 28 Oct; Zilmer-WI)

PAPUA

4890 0830 VLT4, ABC Port Moresby; Eng w/"Sporting Highlights", mx, nx in Eng, wx forecast (v good 26 Oct; Leistner-CA)

SOLOMON ISLANDS

7235 0900 VQ07, SIBS; news in English (poor 25 Oct; Doherty-CA)

TAHITI

11825 0430 R Tahiti; Tahitian talk w/island mx & some U.S. pop tunes (good 23 Oct; Shaw-PA); (also good 0530 28 Oct; Shaw-PA); IS & ID in Fr at 0301 (poor/fair 2 Nov; Miller-OH)
 15160 0300 R Tahiti; usual pgm on new freq (? 31 Oct; Leonhardt-IN)
 R Tahiti is playing musical chairs again and was noted on 15158 on 14 Nov causing severe QRM to R Australia on 15160. 15159 was the freq in use 17 Nov. --EB

Here is a special item of interest submitted by Ralph W. Perry:

"... I'd like to recommend the listing of clandestine stations offered by the Japan Radio Club (Japan Radio Research Ass.) for the mere price of 2 IRC's airmail. I sent for one and it came in 10 days. It lists all (nearly) clandestines, gives P. O. box's, etc., then has a SW freq survey of them. As you can see from some of the reports in FRENEX (Oct), some members are already using theirs. An especially useful item."

Address: Japan Radio Club
 Terou Kataoka
 21-10, Koshien 7-Bancho
 NISHINOMIYA 663
JAPAN

A special welcome is due to first time reporter Andy Kerr and thanks for the continued support of 14 others. Here are the stars of this month's report.

Jack Doherty	Apt 204, 711 West Cota, Santa Barbara, CA 93101	Drake SPR-4
Oliver Ellsworth	2043 West 75th St, Los Angeles, CA 90047	Allied SX-190
Arthur S Getzel	70-29 Kissena Blvd, Flushing, NY 11367	Lafayette HA-600A
Glenn Hauser	PSC Box 42309, Kelly AFB TX 78241	Hammarlund HQ-160
Andy Kerr	555 West D Avenue, Creswell, OR 97426	? unknown ?
Dr Paul G Koutrnik	5506 Monrovia, Shawnee, KS 66216	Knight R-195
Lou & Elinor Leistner	3363 Pershing Ave, San Bernardino, CA 92405	Zenith R-7000-1
Mac Leonhardt	P. O. Box 13, Liberty, IN ?????	Heath SB-310
Albert A. Miller	2362 Selma Ave, Youngstown, OH 44504	National HRO-500
Ralph W. Perry	301 E. Chalmers St, Champaign, IL 61820	Halicrafters S-85
John Rogers	21 Chesham St Flat 21, London SW1X 8NG, England	Satellit 210
Phil Schnabel	163 White Plains Rd, Bronxville, NY 10708	Hammarlund HQ-200
Ed Shaw	415 N Shore Rd, Norfolk, VA 23505	Allied SX-190
William Shaw	7-5 Wilde Ave, Drexel Hill, PA 19025	Drake SPR-4
Robert Zilmer	9016 W. Mt Vernon Ave, Milwaukee, WI 53226	Drake SPR-4
Bob Bundy	Box 114, Truk, Caroline Islands 96942	Drake SPR-4

I have also made use of correspondence with Bob Padula who is editor of ADXN, the "voice" of the Australian Radio DX Club. The address for ARDXC is PO Box 227, Box Hill, Victoria, 3128, Australia.

PAKISTAN: A news broadcast over R Nederland on 18 Nov mentioned that a radio engineer had been shot and killed and two others had been injured by guerillas. (I should think that more diplomatic means should be used by the ANARC QSL committee...--EB)

11# airmail - - Avoid the Christmas crush!! - - Mail early!! - - 11# airmail

HINTS, SUGGESTIONS, and REQUESTS for REPORTERS

Please give many details in your reports particularly with DXier stations. It would be useful to give listening periods rather than just a single time. If parallel frequencies are noted they should be identified as such. If QTH's and such are determined by using some "list" rather than over the air announcements, this source should be given.

When reporting to ASIA/OCEANIA, it is not necessary to "order" your reports. Also the format is not particularly critical tho of course all information which we use in SPEEDX should be included. For those of you contributing to several clubs, carbons are certainly quite acceptable (indeed encouraged). If you wish you may take one listing of your reports and then cut out the items which go to A/O, the items for Eur/Afr, etc. and send them to the various SPEEDX editors. I only have one hard and fast rule and that is as follows: please leave some space between items and write your name on each item. The reason for this is simply that I cut up your reports with scissors and rearrange them for editing. (If your favorite club refuses to accept reports on "flimsy" paper, then by all means send your reports to SPEEDX. Hi!)

Finally please use airmail (only 11¢) as first class mail often takes 2 weeks to reach me. Remember that this is the Christmas season, so please mail early.

Look for extended hours of broadcast during the Christmas and New Year's holidays particularly for some Oceania countries.

Thanks again to this month's reporters and

73's & Best Pac/Asian DX,

Bob

RADIO AUSTRALIA TRANSMISSION SCHEDULE: 7 November -- 5 March 1972

Transmitters: D=Darwin, L=Lynnhurst, P=Perth, S=Shepparton

Languages: E=English, I=Indonesian, M=Mandarin, C=Cantonese, T=Thai, V=Vietnamese, J=Japanese, F=French

<u>South and South-East Asia Service</u>			
5980S 1400-1500 M	7235S 1500-1730 E	9700D 2230-0030 I	15320S 0800-1000 I
1500-1730 E	9550S 1330-1430 T	9735D 2230-2330 V	2245-0100 E
6055D 2100-2215 E	1430-1500 M	11740S 0830-1100 I	15355D 0800-1030 I
1030-1500 I	1500-1730 E	11760D 0930-1130 E	0030-0400 E
1500-1730 E	9560S 2130-2230 V	11765S 1330-1430 T	15395D 0800-0930 E
6100D 1130-1230 C	2230-0030 I	1430-1500 E	17715D 0400-0800 E
1230-1500 M	9570S 0930-1500 E	11790S 2130-2230 V	17715S 2315-0015 F
2130-2230 V	9590S 1030-1130 I	2230-0030 I	17870S 0015-0800 E
7145D 1500-1730 E	1130-1230 C	11840S 0745-1030 E	21540S 0100-0715 E
7175S 2100-2215 E	1230-1500 M	11840D 2330-0030 E	21740S 0330-0400 V*
7185S 1100-1500 E	2100-2345 E	15320S 0330-0400 V*	
7235S 1130-1500 I	9680S 1515-1730 E	0700-0800 E	*Sat & Sun only

<u>East Asia and North-West Pacific Service</u>			
9580S 1000-1100 J	11810S 1100-1300 E	15295L 2000-2345 E	17820S 0615-0930 E
1100-1200 E	15140L 0900-1400 E	17715S 2100-2300 E	21485D 0200-0800 E
11810S 1000-1100 J	15240S 2100-0030 E	17715D 0030-0200 E	

<u>Pacific Islands Service</u>			
5995L 0830-1215 E	11765S 0645-0915 E	15240L 0115-0800 E	17795S 2130-0000 E
9540S 1800-2030 E	11840S 1800-2100 E	15295L 0000-0100 F	0000-0100 F
9570S 0700-0915 E	15160L 2000-0830 E	15320S 0430-0630 F	0430-0630 F
9580S 1800-2100 E			

<u>British and European Service</u>	
9570S 0700-0915 E	11765S 0645-0915 E

<u>North American Service</u>	
9580S & 11710S 1215-1315 E	15320S, 17795S, & 21740S 0100-0300 E

<u>African Service</u>	
7290P & 9665P 1800-2000 E	17820S & 21680S 0330-0500 E and 0500-0600 F

SWBC DX - Station Skeds

SPEEDX

Robert Butterfield
38 Hamilton Road
Belmont, Massachusetts
02178

SPEEDX

All times GMT

DEADLINE: 15th of the month

All dates GMT

VOICE OF AMERICA

For a special Christmas column we are spotlighting the V.O.A. relay stations around the world. To do this, the format usually used will undergo a few changes. Each station is listed by frequency, lowest to highest. It is recommended that a copy of the most recent V.O.A. schedules (November 7, 1971 to March 4, 1972) for which these transmissions are in effect, be obtained. These schedules contain the languages of each transmission. Please note that at different times simultaneous broadcasts occur from more than one transmitter site, on more than one frequency or both. Also included are the areas to which the broadcasts are intended and the power ratings in kilowatts (kw) of each broadcast. The V.O.A. relay stations, if not the most difficult DX, are excellent verifiers and if you can receive these stations you'll quickly increase your VIC scores. Good luck!

Bob

MONROVIA, LIBERIA

6.035	05.45-08.00	West Africa	50 kw
6.045	15.45-18.00	West Africa	250
	21.00-24.00	West Africa	250
6.180	05.15-08.00	Africa	50
7.135	18.15-21.00	Africa	250
7.175	02.45-06.00	Africa	250
7.195	02.45-06.00	East Africa	250
	18.00-24.00	West & Central Africa	250
7.280	02.45-07.30	East & Central Africa	250
9.520	10.00-11.00	Brazil	250
9.530	21.00-01.00	Brazil	250
9.685	09.45-11.00	Brazil	250
9.740	03.00-07.30	Africa	250
9.750	05.45-07.30	Africa	250
11.710	22.00-22.30	North Africa	250
11.770	06.00-07.30	Africa	250
11.830	17.15-19.00	Europe	250
11.875	01.45-03.30	South Asia	250
11.925	02.45-07.30	East & Central Africa	250
11.955	19.00-21.30	Europe	250
15.360	16.45-21.00	East Africa	250
15.445	16.00-24.00	East & Central Africa	250
17.825	16.45-18.00	East Africa	250
17.855	18.30-21.00	Africa	250
21.660	13.45-16.00	South Asia	250
	17.00-18.00	Africa	250
21.690	15.45-20.00	South Africa	250
25.950	09.45-11.00	Southeast Asia	250

THESSALONIKI, GREECE

6.160	18.00-24.00	Europe	35
7.205	21.00-24.00	Europe	35
7.285	19.30-20.30	Europe (for NBI)	35
9.620	18.00-22.00	U.S.S.R.	35
9.660	16.00-18.00	Europe	35
9.710	10.45-14.30	Mideast (for NBI)	35
11.710	12.45-15.00	U.S.S.R.	35
11.760	16.00-19.00	Europe	35
11.805	12.45-18.00	U.S.S.R.	35
11.960	15.00-18.00	Europe	35

MERRY CHRISTMAS AND A HAPPY NEW YEAR!

SPEEDX		STATION SKEDS	SPEEDX
<u>TANGIER, MOROCCO</u>			
5.965	05.00-07.30	Europe	35 kw
6.015	06.00-08.00	Africa	35
6.020	05.15-06.00	Africa	35
6.030	03.30-06.00	Europe	35
6.040	22.30-24.00	Europe	100
6.060	21.45-22.30	North Africa	35
7.170	18.00-24.00	Europe	35
7.220	03.45-06.15	Europe	100
7.250	01.45-03.00	Middle East	100
7.270	03.00-07.30	Europe	100
7.285	21.45-24.00	Middle East	100
9.505	03.30-04.00	Europe	100
	17.45-21.00	Europe	100
	21.00-21.45	U.S.S.R.	100
9.540	04.00-06.00	Europe	100
9.595	02.00-02.30	Middle East	50
9.680	16.15-21.00	Europe	100
9.710	01.45-03.00	U.S.S.R.	100
	21.00-21.30	Europe	100
9.715	03.00-05.00	U.S.S.R.	50
9.740	01.45-03.00	South Asia	100
9.760	03.45-04.15	Europe	35
	18.15-24.00	Europe	100
9.770	03.00-05.00	Middle East	100
	05.00-07.30	Europe	100
11.710	19.15-22.00	U.S.S.R.	35
11.760	01.45-06.30	U.S.S.R.	35
11.840	18.00-21.00	U.S.S.R.	35
11.915	01.45-06.00	Middle East	100
	06.00-07.45	Europe	100
	16.15-21.00	Europe	35
	21.00-22.00	Middle East	35
11.925	15.30-16.15	Europe	35
15.195	05.15-08.00	North Africa	35
	16.30-19.00	Europe	35
15.205	16.00-18.00	Europe	35
15.270	14.45-17.30	Europe	100
15.300	12.45-18.00	U.S.S.R.	35
15.370	18.00-19.00	Europe & Middle East	35
17.710	16.00-18.00	Europe	100
17.800	12.15-16.00	South Asia	100
17.855	16.00-18.15	Middle East	35
21.455	12.45-17.00	South Asia & Middle East	35
21.510	15.00-16.00	U.S.S.R.	35
21.650	14.00-16.00	South Asia	35
	16.00-17.00	Europe	35
25.880	12.45-16.00	South Asia	35
<u>MUNICH, WEST GERMANY</u>			
3.980	02.45-07.30	Europe	8
5.955	15.30-24.00	Europe	8
5.965	02.45-05.00	Europe & Middle East	100
6.005	24 HOURS	Europe (for RIAS)	100
6.095	05.15-08.00	Africa	100
	16.00-22.30	U.S.S.R.	100
6.150	01.45-08.00	U.S.S.R.	100
	18.15-21.00	Africa	100
	21.00-22.00	U.S.S.R.	100
7.290	16.45-21.00	Africa	100
9.530	17.00-21.00	Africa	100
9.585	15.45-18.00	U.S.S.R.	100
9.660	15.45-16.00	Europe	100
9.670	16.00-16.30	Europe	100
17.705	05.00-07.30	East Africa	100
21.560	12.45-16.00	South Asia	100

SPEEDX	STATION SKEDS		SPEEDX
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OKINAWA, RYUKYU ISLANDS

3.935	21.15-22.00	Korea	35 kw
6.010	10.45-16.00	Northeast Asia	35
7.165	10.45-17.00	Northeast Asia	35
	22.15-23.00	Northeast Asia	35
7.255	09.45-17.00	East Asia	100
9.560	21.45-01.00	East Asia	35
11.930	21.45-01.00	East Asia	100

WOOLFERTON, GREAT BRITAIN

5.965	16.45-21.00	Europe	250
	21.00-22.00	U.S.S.R.	250
	22.00-22.30	Africa	250
6.040	03.00-05.00	U.S.S.R.	250
	05.00-07.30	Europe	250
	16.00-22.30	Europe & Middle East	250
6.050	01.45-03.00	U.S.S.R.	250
6.060	16.15-21.30	Europe	250
6.065	01.45-05.00	U.S.S.R.	250
6.080	03.30-06.15	Europe	250
6.160	01.45-07.30	South Asia, Middle East & Europe	250
7.170	01.45-05.00	U.S.S.R.	250
	05.30-06.00	Africa	250
7.200	01.45-07.30	South Asia, Middle East & Europe	250
7.270	19.15-22.00	U.S.S.R.	250
	22.00-22.30	Africa	250
9.540	18.00-22.00	U.S.S.R.	250
	22.00-22.30	Africa	250
9.565	05.30-08.00	Africa	250
9.760	15.45-18.15	Europe & Middle East	250
11.710	15.00-19.15	U.S.S.R.	250
11.840	12.45-18.00	U.S.S.R.	250
15.195	12.45-14.00	U.S.S.R.	250
	14.00-16.30	South Asia	250
15.205	12.45-16.00	South Asia	250
17.855	12.45-16.00	South Asia	250
21.510	12.45-15.00	South Asia	250

COLOMBO, CEYLON

7.105	12.45-18.15	South Asia	10
7.275	01.45-03.30	South Asia	35
11.740	00.45-03.30	South Asia	35
11.835	00.45-03.30	South Asia	10
	12.45-18.15	South Asia	35
15.285	12.45-18.15	South Asia	35

RHODES, GREECE

6.015	03.45-06.00	Middle East	50
	16.00-24.00	Middle East & North Africa	50
6.145	21.00-22.00	U.S.S.R.	50
7.110	03.45-06.00	Middle East	50
7.205	16.00-21.00	Middle East	50
9.505	02.00-03.00	South Asia	50
11.860	15.00-16.00	South Asia	50
11.870	13.45-15.00	South Asia	50
15.160	12.45-16.00	U.S.S.R.	50

KAVALA, GREECE

Tentative transmissions for this period.

6.085	13.00-18.00	U.S.S.R.	250
6.140	18.00-22.00	U.S.S.R.	250
7.285	15.00-19.30	Europe	250
	21.00-21.45	Europe	250

SPEEDX

STATION SKEDS

SPEEDX

PORO/TINANG, PHILIPPINES

6.075	21.45-22.30	Southeast Asia	100 kw
6.130	21.45-24.00	Southeast Asia	250
6.185	21.45-23.30	Southeast Asia	250
7.135	22.00-01.00	South China	100
7.160	21.00-22.30	Northeast & Southeast Asia	250
7.295	15.45-17.00	South China	250
9.530	11.45-16.00	Vietnam	50
9.545	21.45-24.00	Southeast Asia	50
9.555	09.45-17.00	South China	100
9.605	11.45-14.30	Southeast Asia	250
	22.15-23.30	Vietnam	35
9.625	21.45-24.00	Indonesia	250
9.630	11.15-12.15	Indonesia	250
	12.15-14.00	Northeast & Southeast Asia	250
	14.00-15.30	Indonesia	250
9.640	15.45-17.00	South Asia	250
9.650	21.15-24.00	Southeast Asia & Indonesia	250
9.760	10.45-15.45	Southeast Asia	50
9.770	22.00-01.00	South Asia	100
11.715	10.45-17.00	Southeast Asia	250
11.730	11.45-17.00	Southeast Asia	50
11.760	00.00-02.00	Southeast Asia	50
	11.00-16.00	Northeast Asia	250
11.775	11.45-16.00	Vietnam	50
	22.15-23.30	Vietnam	50
11.785	13.15-17.00	Northeast Asia & South China	250
	22.15-23.30	Vietnam	50
11.805	01.15-02.00	Southeast Asia	250
	22.15-23.30	Indonesia	250
	23.30-24.00	Southeast Asia	250
11.830	01.15-02.00	South China	250
	21.15-22.00	Northeast Asia	250
11.875	14.45-16.00	South Asia	50
11.895	11.45-14.30	Southeast Asia	50
11.930	07.45-14.00	Northern U.S.S.R.	250
	11.00-15.30	Southeast Asia & Indonesia	250
11.935	15.45-17.00	South Asia	250
11.965	07.45-10.00	Northern U.S.S.R.	250
	10.00-17.00	East Asia	250
15.110	07.45-11.00	U.S.S.R.	250
	11.45-14.30	Southeast Asia	250
15.135	16.00-17.00	China	250
15.155	01.00-02.45	Southeast Asia & Malaysia	250
	06.45-17.00	Southeast Asia	100
15.175	00.00-02.00	Southeast Asia	250
	14.45-17.00	South Asia	250
	22.15-24.00	Southeast Asia & Indonesia	250
15.185	21.45-02.00	Northeast Asia	250
15.210	23.15-02.00	Northeast Asia	100
	07.15-11.00	Northern U.S.S.R.	250
15.250	11.15-17.00	Southeast Asia & Indonesia	50
15.290	21.45-02.00	Indonesia	35
15.345	10.45-17.00	Indonesia	250
15.365	07.45-10.00	Northeast Asia & U.S.S.R.	250
15.375	00.45-02.00	South Asia	250
15.395	21.45-01.00	East Asia	250
15.410	09.45-17.00	South China	250
17.735	23.15-02.00	Southeast Asia	250
17.740	07.45-11.00	Northern U.S.S.R.	250
17.765	07.45-11.00	Northeast U.S.S.R.	250
	11.00-13.00	East Asia	250
17.830	01.00-02.15	Southeast Asia & Malaysia	250
21.570	01.15-02.00	South & Southeast Asia	50

THANKS TO THE VCA & THE OFFICE OF THE ENGINEERING MANAGER:

Utility Chaser's Corner

PAUL MAYO
2409 Ocean Parkway
Brooklyn, New York 11235

Deadlines:

15th of the month

From The Log

North & Central America

<u>ALASKA:</u>	15693	KOU22, Amchitka w/H-Bomb test @ 2130 on RCSSB (WB)
<u>BARBADOS:</u>	11475	8PX52, C&W Ltd, Carrington w/Eng/TT @ 1145 on SSB(SH)
	19436	8PX92, C&W Ltd, Carrington w/Eng/TT @ 1140 on SSB(AB)
<u>BERMUDA:</u>	10635	ZFD49, C&W Ltd, St Georges w/Eng/TT @ 1913 on SSB(SH)
<u>CANADA:</u>	530	"NB", N. Bay, Ont. w/beacon @ 0120 on CW (RSD)
	4784a	XJA43, RCMP, Vancouver w/tfc re Hi-Jack @ 0110 (AG)
	5090	CFH, Halifax w/"V" mkr @ 1155 on CW (SH)
	8614	CKN, Vancouver w/"V" mkr @ 0822 on CW (JWG)
	13272	Gander Aeradio w/ WX BC @ 2328 on AM (GH)
<u>CANAL ZONE:</u>	14820a	WHZ, Telfers Is. w/"V" mkr @ 2130 on CW (SH)
<u>COSTA RICA:</u>	1670	TIPM, Palmares w/ID mkr @ 0312 on CW (GH)
	5360	TEP, RGCR, Las Pavas w/Eng/Sp/TT @ 0630 on SSB (JWG)
		and at 1134 on SSB (SH)
	7985	TEM, RGCR, Las Pavas w/Eng/Sp/TT @ 1145 on SSB (SH)
		and at 0345 on SSB (SPD)
	13380	TEN3, RGCR, Las Pavas w/Eng/Sp/TT @ 2035 on SSB (ET)
<u>CUBA:</u>	7355	CLA244, PTT, Bauta w/Eng/Sp/TT @ 0320 on AM (RL)
	8756	CLR, Nuevas w/"CQ" mkr @ 0844 on CW (JWG)
	10893	CLA99, PTT Bauta w/Eng/Sp/TT @ 0810 on SSB (AK)
	19676a	PTT, Habana? w/Eng/Sp/TT @ 1223 on AM (ET)
<u>GUADELOUPE:</u>	17520a	PTS, Pt-a-Pitre w/Fr/TT @ 1953 on SSB (AB)
<u>MARTINIQUE:</u>	4930	PZE49, PTS, Ft-de-France w/Fr/TT @ 0745 on SSB (JT)
	8185	PZE82, PTS, Ft-de-France w/Fr/TT @ 0605 on SSB (JT)
	10155	PZF5, PTS, Ft-de-France w/Fr/TT @ 0647 on SSB (JWG)
	11016	PZE, PTS, same at 2120 on SSB (RL)
	20055	PZG, PTS, same at 1415 on SSB (SH)
<u>NICARAGUA:</u>	4900	YND4, TRT, Managua w/Eng/Sp/TT @ 0431 on SSB (MJ)
	7700	YNA7, TRT, Managua w/Eng/Sp/TT @ 0323 on SSB (SH)
<u>PANAMA:</u>	10670	HPH, TRT, Panama City w/Eng/Sp/TT @ 0149 on SSB (JWG)
		also at 0008 on SSB (SH)
<u>PUERTO RICO:</u>	10101.6	WWL20, AACR, San Juan w/Eng/TT @ 2145 on SSB(RL)@0613(MJ)
	11367	San Juan AR Inc. w/Clipper 214 @ 2158 on AM (PM)
<u>U.S.A.:</u>	5870	NSS, Washington, DC w/"V" mkr @ 1140 on CW (SH)
	6873	VOA, Greenville w/Eng feed @ 0640 on RCSSB (WB)
	7485	WIA37, ATT, Ft Lauderdale, FLA w/Eng/TT @ 0412 into tfc w/Guatemala (JRM)
	7555	WMA57, ATT, Oakland, CA w/Eng/TT @ 1515 on SSB (JRM)
	7565	WMA67, same at 1757 on SSB (MJ)
	8088	AFA, Davidsonville, MD w/Eng/TT @ 0626 on SSB (JWG)
	8090	NSS, Annapolis, MD w/"V" mkr at 0722 on CW (JWG)
	8586	WCC, Chatham, MA w/"V" mkr @ 1121 on CW (JW)
	8590	KOK, Los Angeles, CA w/"CQ" mkr @ 0514 on CW (JW)
	8751.4	KMI, Dixon, CA w/Hurricane info @ 0503 on AM (JW)
	8792.8	WOM, Ft Lauderdale, FLA w/tfc @ 0102 on AM (AK)
	8799.2	WAY, Chicago, ILL w/Wx @ 1713 on AM (KL)
	8799.2	WLC, Rogers City, Mich w/Wx @ 1722 on AM (KL)
	10690	AFA, Davidsonville, MD w/Eng/TT @ 2313 on SSB (PM)
	14526	VOA, Greenville, NC w/Eng feed @ 2122 on RCSSB (MJ)
	16320	AFA, Davidsonville, MD w/Eng/TT @ 2100 on SSB (WB)
	19510	AAH(US Army), Seattle, WA clg AAG61 @ 1933 on SSB (SH)

South America

<u>ARGENTINA:</u>	13182.5	LPL9, Gen Pacheco Radio w/Eng/Sp/TT @ 2125 on SSB(ET)
<u>BRAZIL:</u>	13440	EMBRATEL, Rio w/Eng/Pt/TT @ 0034 on SSB (JWG)
	19728	EMBRATEL, same at 1300 on SSB (SH) at 1650 on SSB(JWG)
	20510	EMBRATEL, same at 2215 on SSB (SH)
<u>CHILE:</u>	12165	CEA9G, ENTEL, Santiago w/Eng/Sp/TT @ 0340 on SSB(SH)
<u>COLOMBIA:</u>	11130	ENTEL, Bogota w/Eng/Sp/TT @ 0140 on SSB (FM)
	15500	R. Nacional de Col. w/RCSSB Sp feed @ 2223 (WB)
	16695	CARACOL (Broadcast Network), Bogota clg Habana then relay of IRTS marker at 2242; News at 0002 on AM (GH)

ECUADOR: 10435.5 HDA65, ENTEL, Quito w/Eng/Sp/TT @ 1324 on SSB (GH)
15610 HDA78, ENTEL, Quito w/Sp/TT @ 0005 & 1400 on SSB (AB)
19623.5 HDA87, ENTEL, Quito w/Sp/TT @ 1410 on SSB (AB)

FRENCH GUYANA: 9235 FTS, Cayenne w/Fr/TT @ 0620 on SSB (JWG)
9833 FTS, Cayenne w/Fr/TT @ 0500(WB) @ 0601 on SSB (MJ)
12128 FZC21, FTS, Cayenne w/Fr/TT @ 0145 on SSB(RL)@2125(SH)
19172.5 FZC91, PTS, Cayenne w/Fr/TT @ 2015 on SSB (KL)
19744 PJN19, GRTA, Aruba (Announced, listed Curacao!) w/ Eng
TT @ 1110 on SSB(SPD) @ 2021 announced as Curacao
on SSB (PM)

NETHERLAND
WEST INDIES: 20632.5 PJZ25, GRTA, Willemstad w/Eng/TT @ 1950 on SSB (AB)
11427 ZPG14, ANTELCO, Asuncion w/Eng/Sp/TT @ 0519 on SSB(PM)
11367 Piarco Aeradio w/KLM779 @ 2131 on AM (PM)
6100 YVTO, Caracas w/time @ 0629 on AM (MJ)

Europe

AUSTRIA: 17620 OEF37, PTA, Fleckendorf w/Eng/TT @ 1040 on SSB (AB)
10017 Santa Maria w/tfc in Port @ 1150 on AM (SH)

AZORES: 13168.5 Oostende Radio (OSU51) w/Eng/TT @ 1923 on AM (AB)
10240 OKR20, PTT, Copenhagen w/Dan/TT @2120(PM)@2050(AB) on SSB

BELGIUM: 13100a BR, PO, Portishead w/Eng/TT @ 1515 & 1724 on AM (AB)
19070 GPF17, Br. PO, London w/Eng/TT @ 1400 on SSB (AB)

FINLAND: 13189.5 Helsinki Radio w/Eng/Fin/TT on SSB @ 1245 (SP)
17339 Helsinki Radio w/Eng/Fin/TT on AM @ 1540 (AB)

FRANCE: 13835 FTN83, PTS, Paris w/Eng/Fr/TT @ 2013 on SSB (KL)
16335 FTQ33, same at 1846 on SSB (KL)
17279.5 FFL36, St Lys Radio w/Fr TT @ 1125 on AM (AB)
20900 FTU90, PTS, Paris w/Eng/Fr/TT @ 1910 on SSB (SP)
24240 FTY24, same at 1605 on SSB (SH)

GERMANY, EAST: 20060 DKC6, ORTS-DDR, Nauen w/Ger/Eng/Fr/TT @ 1415 on AM (AB)
GERMANY, WEST: 8511.9 DAL, Norddeich w/"V" mkr @ 0732 on CW (JWG)
13175.5 DAK, Norddeich w/Ger/Eng/TT @ 1715 on AM (AB)
19240a AEA, Pirmasens w/Eng/TT @ 1416 on SSB (AB)

GREECE: 8811.9 SVA, Athina1 Radio w/Eng/Grk/TT @ 0147 on SSB (KL)
13180 SVN4, Athina1 Radio w/Eng/Grk/TT @ 0112 on AM (AB)

ICELAND: 12175 TPJ, Reykjavik Radio w/Eng/Ice/TT @ 1352 on AM (SH)
IRELAND: 5533 Shannon Aeradio w/Wx Bc @ 0410 on AM (RL)
13312 Same at 1818 (KL) at 2035 on AM (AB)

ITALY: 18694 ITALCABLE, Rome w/Eng/Fr/Sp/It/TT @ 1510 on SSB (SH)
19592 ITALCABLE (IRR35), Rome w/E/S/It/F/TT @ 1455 on SSB (ET)
19647 IRR36, Same at 1824 on SSB (KL)

NETHERLANDS: 7735 PDL27, Nether PTT w/Eng/TT @ 0225 on RCSSB (JL)
13161.5 Scheveninger Radio w/Dtch role calls @ 1700 on AM(AB)
18620 PCM88, Nether PTT, w/Dtch feed to Bonaire @1710 (WB)

RSFSR, EUROPEAN: 8515a RCC, Kupavna w/"V" mkr @ 0145 on CW (JWG)
18870 HRG26, Moscow R&T w/Eng/TT @ 1500 on SSB (AB)

SPAIN: 10483.5 AOK, Moron AFB w/Eng/TT @ 0438 on SSB (PM)
20225 AOK, Moron AFB w/Eng/TT @ 1320 on SSB (AB)

SWEDEN: 18170 SDA4, Swed Telecom, Varberg w/Eng/TT @ 1100 on SSB(AB)
SWITZERLAND: 19468 Swiss T&T, Berne w/E/F/Sp/TT @1500(ET) @ 1905 on SSB(JWG)
19825 HBE89, Swiss T&T w/E/F/Sp/TT @ 1350 on SSB (SP)
19950 HEB99, Swiss T&T w/E/F/Sp/TT @ 1840 on SSB (SH)

Africa

CAMEROON: 9875 TJF99, FCR, Douala w/Eng/Fr/TT @ 0543 on SSB (MJ)
12015 TJF20, FCR, Douala w/Eng/Fr/TT @ 0350 on SSB (RL)
20080 SUA321, Cairo PTT w/MM @ 1505 (SH)

EGYPT: 10862.5 ETJ86, IBOT, Addis Ababa w/E/Amhar/TT @ 0307 on SSB (PM)
10585 AEZ, Asmara w/Eng TT @ 1640 (ET) & 0437 on SSB (PM)
10940 ETJ94, IBOT, Addis Ababa w/E/Amhar/TT @ 0330 on SSB(RL)
17435 ETQ44 same at 1950 on SSB (SP)
18750a IBOT, same at 1316 on SSB (SH)

IVORY COAST: 12115 TUP21, INTELICI, Abidjan w/Eng/Fr/TT @ 0605 on SSB (JWG)
13920 TUA513, INTELICI, Abidjan e/Eng/Fr/TT @ 1950 on SSB(AB)

LIBERIA: 51F16, FCR, Monrovia w/Eng/Fr/TT @ 0041 on SSB (AB)
MALAGASY: 10515 SRY5, STIMAD, Tananarive w/Eng/Fr/TT @ 0315 on SSB(JL)
and at 0304 on SSB (SH)

MOROCCO: 18408 CNR31, Electr Center, Rabat w/Fr/E/Ar/TT @ 1330 on SSB(AB)
SENEGAL: 10017 Dakar Volmet w/Wx Bc @ 2123 on AM (SH)

Note: Special report forms for this section only are at the printers and will be available soon. Send are large SASE (Business size with 16¢ postage) for a supply now!

SOUTH AFRICA: 10350 ZUD75, Olifantsfontein w/E/Afr/TT @ 2245 on SSB (ET)
13950a ZUD, Olifantsfontein e/E/Afr/TT @ 0008 on SSB (SH)

Asia

AFGHANISTAN: 18658 YAY1, Royal Comm w/Eng/TT @ 1235 on SSB (SH)
CYPRUS: 10400a CTA, Nicosia w/Eng/TT @ 2150 on SSB (RL)
HONG KONG: 18862.75 ZE089, C&W Ltd w/Eng/TT @ 2250 on SSB (WB)
ISRAEL: 15455a(??ed!) PTT, Tel Aviv w/Eng/TT @ 0315 on AM (ET)
JAPAN: 18725 KDD, Tokyo w/Eng/Jap/TT @ 2215 on SSB (JWG)
KUWAIT: 10155 9KT281, PTT w/Eng/Arab/TT w/MM @ 0454 on AM (PM)
20805 9KT381, PTT w/Eng/Arab/TT @ 1245 on SSB (AB)
SAUDI ARABIA: 18365 HZQ836, PTT w/Eng/Arab/TT @ 1345 on SSB (AB)
19345 HZQ934, PTT w/Eng/Arab/TT @ 1330 on SSB (AB)
THAILAND: 14862 HSD5, P&T Dept, Bangkok w/Eng/Thai?/TT @ 0155 on SSB(JT)
VIETNAM, SOUTH: 10825 XVX10, Saigon PTT w/Fr/TT @ 0435 on SSB (JT)
15530m Saigon PTT. w/Fr/TT @ 2045 on SSB (JT)

Oceania

AUSTRALIA: 6680 Sydney Volmet w/WX BC @ 1201 on AM (SH)
7500 VNG, Lyndhurst w/time @ 1515 on AM (JRM)
8521 VIS26, Sydney w/"V" mkr @ 0718 on CW (JWG)
12000 VNG, Lyndhurst w/time pips @ 0631 on AM (SH)
E. CAROLINE IS: 4540 KUT30, Truk, Missionary net @ 0830 on SSB w/tfc (BB)
(How many miles from you is this one Bob?-pm-)
GUAM: 15016 NPN w/Eng/TT @ 2100 on SSB (WB)
HAWAII: 8905 Honolulu Volmet w/Wx Be @ 0023 on AM (SH)
17659 Pac Missile Fac, Barking Sands w/E/TT @ 0200 on AM(WB)
NEW GUINEA: 5885 VL9AL, Lae clg Pt Moresby @ 0755 on SSB (BB)
NEW ZEALAND: 16065 NZPO, Himatangi (ZLX44) w/Eng/TT @ 1855 on RCSSB (WB)
TAHITI: 9928 FZO99, FTS, Papeete w/Fr/TT @ 0634(MJ) @ 0756(AK) on SSB

MILITARY: 6758 "Dropkick" military tactical w/count @ 1054 on SSB(GH)

UN-ID: 4805 Time station in CW @ 0340 (MJ)

CANADA: COTC, Drummondville, 10520: sent L w/all data in 10d, 2 IRCs;
V/s: RB Miller, Plant Manager (RL)
CANAL ZONE: ACA, 12105: L w/date & veri statement + "As an Army activity,
this station does not exchange QSL cards." in 10d, 3 IRCs
V/S Fredrick Broadwater (RL)
GERMANY WEST: Deutsche Bund, Hamburg, 19460: Personal C in 2 m for 2 IRCs
w/full data. (SPD)
IRAN: PTT, 18560: Personal full data L from?.. Director Gen of Telecom in
3w for f/up for Eng rpt, MS US MS and addr label. (SPD)
ITALY: Roma Radio, 13161.5: form L with all data filled in w/ power of "
about 10 kw" in 9 mo for 3 IRCs, via air. V/S Guidarelli Mattioli,
Ing Giorgio. (SPD)
LIBERIA: FCR, 7968: personal L in 15d for Eng rpt, 2 IRCs, US cancelled
stamps & addre label. Addr: Box 111, Monrovia. (SPD)
UPPER VOLTA: FCR, 11095: form L printed on teletype paper with date &
freq filled in from Louis Hourtane, Le Chef de Centre in
12 d for f/up, MS, addr label. (SPD)

Thanks this month to 20 great guys!

AB Alan Brooks, Portsmouth, NH
AG Art Glover, Pt Angeles, WA
AK Andy Kerr, Creswell, ORE
BB Bob Bundy, E. Caroline Is.
ET Edward Tafel, Syracuse, NY
GH Glenn Hauser, Kelly AFB, TX
JL Jim Lovell, Louisville, KY
JRM J. Russ Mappin, Spokane, WA
JT Jack Tordoff, Redwood City, CA
JW Jack Widner, Indianapolis, IN
Trx one & all! A welcome back to Art Glover and Ed Tafel! Remember: All
Ute QSL reports go to this column!! Also send in your rare ones for
reproduction in SPEEDX (Send a Xerox and not the actual veriel!) Also
don't forget to buy your copy of the "Utility Handbook" now!!
till next month 73s

JWG Jack White, Gresham, ORE
KL Ken Lazear, Columbus, OH
MJ Mike Jones, Hollywood, CA
PM Paul Mayo, Brooklyn, NY
RL Russell Lay, Virginia Beach, VA
RSD R Stephen Dilidine, Arlington, VA
SH Steve Handler, Evanston, ILL
SP Stephen Page, Sanford, ME
SPD Steven P. d'Adolf, Woburn, MA
WB Wendell Benedetti, Los Angeles, CA

Utility QSL Feature

FRANCE CABLES ET RADIO

LOMÉ, le 5 Mars 1971

Centre de LOMÉ

RÉF. S/N

NOTE

Destinataire Steven HANDLER / USA.

Objet : QSL of your report

Référence : Your letter 27/2/71

DATE TIME : 27/2/1971 0726/0741 GMT.

FREQUENCY : 5 VH 79 = 7.940 Khz

POWER : 6 KW

TYPE OF TRANSMISSION : SSB 4 Channels

3 RT Channels

I TX "

AERIAL : RHOMBIC

DIRECTION : ABIDJAN / ACCRA

TKS for your report OM

Le Chef de Centre

P. TYMEN.



C. A. N. TELEFONOS DE VENEZUELA VENEZUELAN TELEPHONE COMPANY

Confirmando el reporte de nuestro Sistema Internacional de Radio
Confirming the report of our International Radio System

Recibido de Received from	Jim Lovell	Fecha Date	1971 JAN. 18	Hora Time (GMT)	2342
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TRANSMITIENDO CON

TRANSMITTING WITH

Potencia de Power of	10 KW (P.E.P.)	Modo Mode	SSB	Frecuencia Frequency (Mc)	18.852	Antena Antenna	Rombic
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Muchas gracias por su atención
Many thanks for your attention


73 es DX


Barb Pines
For Dist. Large Distances

MORE

Thanks to Steve Handler of Evanston, ILL and Jim Lovell of Louisville, KY for these fine QSLs.



UTILITY QSLs

 <p>VOTRE REFERENCE : ANNEXES : STATION OBSERVÉE : HORAIRE : CORRESPONDANT : FREQUENCE : CLASSE D'EMISSION : LARGEUR DE BANDE : PUISSANCE : CARACTERISTIQUES ANTENNE : NB. DIRECTIONELLE : AZIMUT : ANGLE D'OUVERTURE : GAIN :</p>	<p>QSL</p> <p>vosre lettre du 27 mars 1971</p> <p>1 carte CSL</p> <p>Kinshasa 9RL349</p> <p>2000 - 0400 GMT</p> <p>Paris</p> <p>14985 kHz</p> <p>A9B</p> <p>12 kHz</p> <p>35 KW</p> <p>351°</p> <p>40°</p> <p>15 db</p>
---	---



G. MUKELREBE-EBWE

Mod. 116 bis/T

<p>RADIO <u>WDX 7 JXK</u></p> <p><u>KP4884</u> CONFIRMING SSB SSB SSB</p> <p>ABOARD THE USS OKINAWA</p> <p>PRIME RECOVERY SHIP FOR APOLLO 15</p> <p>DATE <u>Apr 7 11</u> GMT <u>1958</u></p> <p><u>25</u> <u>7</u> <u>11</u> <u>21</u> <u>28</u> (18)</p> <p>RADIO-TV AUDIO COMMUNICATIONS BY THE FLEXIBLE BROADCASTING SYSTEM CAPTAIN J. O'CONNOR W2KGO</p>	<p>APOLLO</p>   <p>United States Navy</p>
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RELIABILITY SECURITY SPEED

GREETINGS



NAVAL COMMUNICATION STATION
SPAIN

QSL

FREQUENCY CLASSIFIED

POWER FOR PEACE

Thanks go to Steve Handler of Evanston, IL for the above QSLs. The first is the Congo PTT (Kinshasa). The second is a card from the USS Okinawa relaying the Apollo 15 splashdown to San Francisco, CA. The third one is from US Naval Communications Station AOK in Spain.

UTILITY SPOTLIGHT

Editors: Steven Joel Handler, 401 Dewey Ave., Evanston, Ill. 60202

Mark Koukol, 1232 N. Eagle St., Naperville, Ill. 60540

Project Gamma

Project Gamma has come to an end. We have found out what the "spy" transmissions were. To date we have received 16 reports from SpeedX members. I would like to thank the following for their help: Wendell Benadetti, Lou & Elinor Leistner, Edward Day, Dr. Paul Koutnik, Andy Kerr, Paul Mayo, Russell Lay, Herman Hunt, V. Charles Deeke, J. Russ Mappin, Glenn Hauser, and of course Mark Koukol who assisted me with Project Gamma.

The results are as follows: The spy transmissions used the following frequencies-8413, 9117, and either 6723 or 6726 khz. No one could give a positive id to the stations, the only thing for sure is, that before each transmission a 3 letter code group was given (eg-Count 165). This probably told the person receiving the code the mode to use to decode it. Mr Hunt sent in a reception report stating that he heard static from an electrical storm but there was no storm near him at the time. I checked with the weather bureau and found that it might have been caused by an electrical storm that extended from Washington to just South of Miami. Paul Mayo also got a direction bearing on the signal stating that it was a SE/NW signal. I sent inquiries to the F.C.C., F.B.I. and C.I.A. to see if they knew who it was. The F.B.I. and C.I.A. never answered but the F.C.C. did. They said that they knew who it was, but it was not their job to regulate these transmissions.

Taking into account the above information I conclude that this spy station is owned by the United States Government. (Hence the F.C.C. does not regulate them) I would assume the station is run either by the CIA or by the Military. All three frequencies are right in the middle of U.S. Military channel bands. I also conclude that the location on the transmitter is either in Washington or Miami. If it is in Washington it is either CIA or Military. However if it is located in Miami it is the CIA's.

You might wonder why the CIA has a spy transmitting station in Miami. The answer is simple. To send messages to revolutionary agents inside CUBA. I also checked ITU records. The US government (ARMY) has two major monitoring stations in Miami to monitor Cuban transmissions. To sum it up, we have not been hearing a Foreign spy but one of our own Spy transmitters. No doubt its location is secret so don't worry about getting a QSL. Sorry I couldn't pinpoint the exact source but what I found out is better than nothing. Starting in January this section is going to offer a large number of special Utility Lists to contributing members so start contributing. Another note of interest. If you want a good book about Utility Dxing now is your chance to get it. SPEEDX is selling copies of the Utility Handbook written by Paul Mayo and myself. It has well over 400 station addresses plus alot of lists. Also several excellent articles about Utility Dxing written by some of the most experienced Utility Dicers in North America. For more information write:

SPEEDXTRAS
c/o Jack White
780 NW WALLULA AVE
GRESHAM, OREGON 97030

73's

Steve

QSL SECTION

CHRISTOPHER LOBDELL
149 WALNUT STREET
READING, MASS 01867

DEADLINE: DECEMBER 15TH

EUROPE

AZORES: Emissora Regional, 4825, ship card w/full data in 46 days from Lisbon; reported in Port. w/2 IRCs to Azores (Rogers-GB) same card in 3 weeks by sea mail; reported in Port. to Azores (d'Adolf-MA) full data card from Lisbon in 30 days; reported in Port. to Azores w/IRC (Dildine-VA)

BYELORUSSIA: R. Moscow-Minsk, 15150, full data card by air in 35 days; no return postage (Brooks-NH)

CZECHOSLOVAKIA: R. Prague, 5930, "castle" card w/full data by air in 24 days; 1 IRC (Slosman-NY) 7345, 3 cards w/full data in 11 days air, 62,65 days sea; no IRCs (Dickey-MN)

DENMARK: R. Denmark, 15165, radiohouse tower card by air in 22 days; rptd in English w/IRC. Original report rejected but follow-up worked. (Brooks-NH) full data card by air in 7 days; no IRCs. (Ellsworth-CA)

GREECE: VOA-Thessaloniki, 7285, usual card in 19 days; no return postage. (Mayo-NY)

INTERNATIONAL WATERS: R. Nordsee, 6205, colorful Mebo II card w/no data in 6 weeks; 1 IRC. (Rogers-GB)

ITALY: RAI-Rome, 15410, usual card w/full data in 112 days sea mail; no return postage. (Ellsworth-CA)

LITHUANIA: R. Moscow-Kaunas, 11870, card w/full data stating site by air in 2 months. (d'Adolf-MA) full data card in 35 days air; no return postage. (Brooks-NH)

MONACO: Trans World Radio, 7290, photo card w/full data, sked and religious info by sea mail in 86 days; 1 IRC (Doherty-CA) black/white card w/sked in 25 days; 2 IRCs. (Fay-MA) card w/full data in 52 days; 2 IRCs and post card. (Brooks-NH)

NORWAY: R. Norway, 21655, "Winter In Norway" photo card w/full data by air in 12 days w/sked; no return postage. (Lobdell-MA)

ROMANIA: R. Bucharest, 9570/11940, two cards by air in 80/84 days; no return postage. (Dickey-MN) 11940, full data card by air in 93 days; also sent letter and monitor club rules. (Ellsworth-CA)

UKRAINE: R. Moscow-Ivano Frankovsk, 9665, full data card w/site by air in 35 days; no return postage. (Brooks-NH)

R. Moscow-Lvov, 11900, card w/full data by air in 35 days; no return postage. (Brooks-NH)

U.S.S.R.: R. Moscow, 17910, card/letter without site in 5 months by sea mail; no return postage. /s/: Miss Larissa Motyрева, African Service. (Dildine-VA)

VATICAN STATE: Vatican R., 11740, card w/full data in only 11 days by air mail, used report form; IRC sent. (Brooks-NH)

QSL SECTION

YUGOSLAVIA: R. Belgrade, 6100, folder card w/full data, sked and colorful pennant by sea in 133 days; reported in English w/IRC and post card. (Brooks-NH) 9620, folder card and calender in 4 months; IRC sent. (Fay-MA)

AFRICA

ALGERIA: RTA-Algiers, 9510, camel card w/full data in 14 weeks; reported in English w/3 IRCs. (Lovell-KY)

ANGOLA: Voz de Angola-Luanda, 6175, sailboat photo card w/full data in 2 weeks; also sent sked and unused Angolan stamps. Reported w/mint stamps and used US stamps. (Perry-IL)

BOTSWANA: R. Botswana-Gaberones, 4845, bird foto card w/frequency and verie statement by air in 5 weeks; mint stamps sent. (d'Adolf-MA)

CAMEROON: R. Yaounde, 4972½, 2 map cards w/full data by sea mail in a month; reported in French w/mint stamps. (d'Adolf-MA) 2 cards w/full data by sea in amonth after 5 reports. Reported in English w/3 IRCs. (Perry-IL)

CAPE VERDE ISLANDS: R. Barlavento, 3930, sent "many thanks for your report" type card in 15 days; reported in Portuguese w/2 IRCs. (Rogers-GB)

COMORO ISLANDS: ORTF-Moroni, 7260, sent verie letter w/frequency only by air in 16 days; 3 IRCs. /s/: Rene Poncelet. (Lovell-KY)

CHAD: R. Nationale Tchadienne, 4904, large OCORA card w/3 photos containing date, time (incorrect) and sked by air in 18 days. (Zabransky-IL)

GHANA: R. Ghana-Accra, 11850, multi-colored card w/full data by sea in 18 weeks; 2 IRCs. (Lovell-KY)

IVORY COAST: R-Tv Ivoirienne-Abidjan, 4940, card w/wrong date filled in by air in 25 days; reported in French w/2 IRCs. (Dildine-VA) 11920, map card w/data checked off in a month by sea mail. (d'Adolf-MA) yellow/blue/black card w/full data by sea mail in 50 days; 1 IRC sent. (Doherty-CA)

LIBERIA: ELWA-Monrovia, 11950, native drummer card w/full data by air in 14 days; 10 IRCs sent as a donation. (Ellsworth-CA)

MAURITANIA: R. Mauritania-Nouakchott, 4850, map card w/full data by air in 2 weeks; reported in French w/mint stamps. (d'Adolf-MA)

SOUTH AFRICA: RSA, card w/full data by air in 15 days; two skeds sent too. (Schmuck-IL)

SABC, 4945, color card w/full data and sked in 21 days; 2 IRCs sent. (Rogers-GB)

TUNISIA: R-Tv Tunisienne-Tunis, 11900, color photo of "Porte de France" w/full data by sea in 51 days; 1 IRC sent. (Doherty-CA)

UNITED ARAB REPUBLIC: R. Cairo, 9475, letter w/verification statement saying cards being printed by sea in 5 months for 1 IRCs. (Fay-MA)

UPPER VOLTA: French Cable and Radio(utility)-Ouagadougou, 18090, returned prepared card w/full data by air in 2 weeks after follow-up; 2 IRCs sent. (Macken-MA)

ASIA

BRUNEI: R. Brunei, 7215, map card w/all data except time, sked by air in 8 days; 3 IRCs sent. (Doherty-CA)

CEYLON: CBC-Colombo, 11800, "Flowers of Ceylon" card w/full data by air mail in 71 days; 1 IRC sent. (Doherty-CA)

CHINA(People's Republic): R. Peking, 6620, sked. form letter in 23 days w/no mention of report; no return postage. (Rogers-GB) 15095, post card w/ date and frequency plus form letter. Maybe Nixon did something right. (Kerr-Oregon) various peices of literature by sea in 5 months; no return postage. (Macken-MA) color post card stating date and frequency, sked and form letter by air in 26 days; no return. (Shaw-PA)

INDONESIA(Java): Voice of Indonesia-Djakarta, blue/white card w/full data in 51 days via air mail; IRC sent. (Slosman-NY)
RRI-Jogjakarta, 5047, card in 30 days depicting cosmological order of the universe in yellow. Reported in Indonesian w/NASWA report form on English newscast at 1145 GMT w/5 IRCs. (Perry-IL)

INDONESIA(West Irian): RRI-Manokwari, 6193, letter in English from director R. Soebardi by air in 9 months; reported in English w/5 IRCs by registered air mail. (Perry-IL)

JAPAN: R. Japan-Tokyo, 15105, card w/photo of skating rink by air in 17 days (Schmuck-IL) 17725/17785, "Modern Hanga" card w/full data (as requested) by sea mail in 5 months; sent taped reports. (Lobdell-MA) 17785, "Sacred Cranes" card w/out time by air in 12 days; no return postage. (Brooks-NH)

PHILIPPINES: FEBC-Manila, 7225, green tinted photo card w/full data by air in a month; 3 IRCs. (Perry-IL)
R. Veritas-Manila, 15310, letter w/thanks for report and sked in 3 weeks; IRC sent. (Fay-MA)

SINGAPORE: R. Singapura, 7250, card w/verie statement but no data in 17 days; 3 IRCs sent. (Rogers-GB)

THAILAND: R. Thailand, 11910, full data card and sked by air in 26 days; 3 IRCs sent. (Doherty-CA)

TURKEY: R. Ankara, 15190, dancers card and sked in a month; IRC sent. (Fay-MA) card w/full data, sked in 93 days; no return postage. (Imbert-VA) card w/full data by sea in 3.5 months; 2 IRCs. (Lovell-KY)

VIETNAM(North): Voice of Vietnam-Hanoi, 15005, light blue thank you card w/sked on back from Prague in 23 days; 3 IRCs sent. (Doherty-CA)

VIETNAM(South): VTVN-Saigon, 9620, usual full data card and sked + form letter by air in 36 days; 1 IRC sent. (Doherty-CA)

OCEANIA

AUSTRALIA: ABC-Brisbane, 4920, usual ABC card w/full data by air in 11 days; mint stamps sent but not used. (Brooks-NH) 9660, map card w/full data in 40 days. (Kerr-OR)

R. Australia, 15160, "Ayers Rock" photo card and sked by sea in 3 months; no return postage. (Shaw-PA) 15320/17795/21740, 4 cards w/full data in 99/74/99/94 days by sea mail; no return postage. (Dickey-MN)
VNG-Lyndhurst, 7500, folder card w/full data by air in 23 days; mint stamps sent and used. (Brooks-NH)

NEW CALEDONIA: ORTF-Noumea, 11710, blue/black/white card w/full data by air in 77 days; 1 IRC. (Doherty-CA)

SOLOMON ISLANDS: SIBS-Honiara, 7115, usual card w/all data except frequency by sea mail in 6 months after follow-up w/5 IRCs. (Berg-MA)

QSL SECTION

NORTH AND CENTRAL AMERICA

CANADA: CFRB-Toronto, 10100, QSL letter from Clive Eastwood for reception of 10th harmonic (10x1010) by air mail in 7 days. He suggests that a non-linear connection near my receiver may have received the fundamental frequency and radiated the harmonic. At 2 PM? (Dildine-VA)

CHNX-Halifax, 6130, card w/full data in 10 days; mint stamps sent. (Imbert-VA)

CHU-Ottawa, card w/complete info in 18 days. (Schmuck-IL)

CJCX-Sydney, 6010, usual green and black card w/date only by air in 8 days; IRC sent. (Doherty-CA)

CUBA: Ministerio de Comunicaciones-Havana (utility), 18840, letter giving frequency, date and call letters in 70 days; no return postage. (Macken-MA)

DOMINICAN REPUBLIC: La Voz de Fuerzas Armadas/HIFA, 4825, map card w/no details, tourist magazine and pennant in 104 days by sea mail; reported in Spanish w/mint stamps. (Dildine-VA)

HAITI: 4VEH-Cap Haiten, 11835, folder map card w/full data by sea mail in 65 days; 1 IRC sent. (Doherty-CA) 15280, folder card w/full data, sked and form letter in 21 days; 3 IRCs. (Rogers-GB)

HONDURAS: HRVC-Tegucigalpa, 4820, full data card and sked by air in 117 days; 1 IRC. (Imbert-VA) pink/black card in 35 days; 2 IRCs. (Mayo-NY)

MEXICO: R. Mexico/XERMX, 17835, card w/full data, pennant and other info by registered mail in 25 days; 1 IRC. (Doherty-CA)

NETHERLANDS ANTILLES: R. Nederland-Bonaire, 11730, cathedral card, sked and form letter w/full data by sea in 43 days; 1 IRC. (Doherty-CA)

TURKS AND CAICOS IS: Cable and Wireless/VSI8-Grand Turk, 4788, sent personal verie letter w/date and QSL statement only for test held on October 30th; by air in 19 days; 2 IRCs. (d'Adolf/Lobdell-MA) 19 days; 5 IRCs. (Berg-MA)

UNITED STATES: WOM-Miami (utility), 8792, world map card w/date only in 6 days; 8¢ stamp sent. (Imbert-VA)

SOUTH AMERICA

BOLIVIA: La Cruz del Sur-La Paz, 4875, card w/pix of mountain and antenna tower stating frequency only in 3 weeks; SASE sent and used. (Perry-IL)

BRAZIL: R. Bandeirantes-Sao Paulo, 11925, form letter in English and nice pennant by air in 17 days; 2 IRCs sent w/Spanish report. (Doherty-CA)

ECUADOR: Emisora Gran Colombia, 4910, letter in Spanish w/verie statement and date, small pennant by air in 18 days; reported in Spanish w/mint stamps. (Zabransky-IL)

HCJB-Quito, 21460, antenna system card w/full data in 32 days; 3 IRCs sent. (Rogers-GB) stereo control card by air in 2½ weeks, US mint stamps sent. (Schmuck-IL)

GUYANA: GBS-Georgetown, 3290, full data letter and sked in a month for 2 IRCs. (Perry-IL)

VENEZUELA: Ecos del Torbes, 4980, letter in Spanish giving frequency only and multi-colored pennant in 22 days; reported in Spanish w/3 IRCs. (Rogers-GB) letter in Spanish w/no data plus small blue pennant by air in 13 days; reported w/mint stamps in Spanish. /s/: Alvarez Sarmiento, Relaciones Publicas. (Zabransky-IL)

VENEZUELA(cont): R. Angostura, 6120, friendly Spanish letter w/no data, large pennant, map and post card by air in 24 days; reported in Spanish w/mint stamps. (Zabransky-IL)

R. Barquisimeto, 9510, card w/all data except time by air in 16 days; reported in Spanish w/2 IRCs. (Doherty-CA)

R. Rumbos, 9660, full data card in English on color post card by air in 19 days; 2 IRCs. (Doherty-CA)

NEWS AND NOTES

Report Forms Available

By the time you read this, QSL SECTION reporting forms will be available. For a free supply, just send a large size (#9) self-addressed, stamped envelope to your editor. Overseas members need only send two IRCs. The forms make it much easier to report and have space for all essential information.

DX Stamp Service Increases

Reporter Cedric J. Marshall advises that there have been numerous price increases in the cost of mint stamps. If you haven't ordered stamps from Sax lately, better write and get the revised list before ordering. When writing, don't forget that SASE.

SWL "Address Book" Updater

Oliver "Perry" Ferrell of Gilfer Associates has informed me that a special updater has been published for use with the "SWL ADDRESS BOOK". For those of you who don't know, the "SWL ADDRESS BOOK" by J.C. Gillespie is a handy publication listing all the up-to-date addresses and QSL policies of all SWBC stations that are known to verify reception reports. The "updater" is just off the press and may be bought separately or may be purchased in combination with the "SWL ADDRESS BOOK". Write Gilfer Associates at Box 239, Park Ridge, New Jersey 07656 for prices and information.

Season's Greetings To All

We are fast approaching the time of holiday celebrations. Before too long it will be 1972! I'd like to wish all SPEEDX readers a happy holiday season.

CONTRIBUTORS

Steve d'Adolf; Woburn, MA
 Jerry Berg; Lexington, MA
 Alan Brooks; Portsmouth, NH
 Donald Dickey; Minneapolis, MN
 R. Stephen Dildine; Arlington, VA
 Jack Doherty; Santa Barbara, CA
 Oliver Ellsworth; Los Angeles, CA
 Jon H. Fay; Topsfield, MA
 Martin Imbert; Va Beach, VA
 Andy Kerr; Creswell, OR

Jim Lovell; Louisville, KY
 Mike Macken; Winthrop, MA
 Paul Mayo; Brooklyn, NY
 Ralph Perry; Champaign, IL
 John Rogers; London, England
 Jim Schmuck; Niles, IL
 Bill Shaw; Drexel Hill, PA
 Everett Slosman; Endicott, NY
 Jim Zabransky; Elmhurst, IL

73s and Good DXing!

Cyris

QSL FEATURES

RP/MB

OFFICE DE RADIODIFFUSION-TELEVISION FRANÇAISE

Station des Comores

COMOR, 1077/71

Moroni, le 2 Novembre 1971

Le Chef des Services Techniques
de l'ORTF aux Comores

à

Monsieur Ralph W. Perry
701 E. Chalmers St.
Champaign
Illinois 61820
Les Etats-Unis de l'Amerique

Monsieur,

J'ai le plaisir de vous confirmer que vous avez bien reçu
la Station de l'ORTF aux Comores .

Nous émettons aussi de 15H30 à 21H GMT sur 3331 kHz .

Je vous prie de croire, Monsieur à mes sentiments les meilleurs.

Le Chef des Services Techniques
de l'Office de Radiodiffusion Télévision
Française pour l'Archipel des Comores



René PONCILET

Many thanks go to Ralph Perry for sending in this photo-copy of his rare QSL from the ORTF-Moroni, Comoro Islands station. This station was heard for a brief period of time on 7260 kHz around 0330 hours, GMT.

EAST AFRICAN EXTERNAL TELECOMMUNICATIONS CO. LTD.,
P. O. BOX 22, DAR-ES-SALAAM, TANZANIA.

28th August, 1970.

Confirming your reception of our transmission.

DATE: 23rd August, 1970.

TIME: 1925 - 35GMT.

FREQUENCY: 5HF71/B1. Carrier Frequency 15515 Khz.

TYPE OF EMISSION: SSB.

Transmitter: Marconi H1200.

Power: 30KW.

Aerial: 3-wire terminated rhombic bearing 335 degrees
tilt angle 69 degrees, side length 504 feet,
height 120 feet.

Service: DSM - LN Special transmission to send
facsimile.



Branch Engineer.

Michael J. Macken,
64, Court Road,
Winthrop, Massachusetts,
U.S.A. 02152.



T G V N

3,360 Khz.

Señor Dr. Richard F. Wood
Pueblo o Estado Louisiana State University
Ciudad Baton Rouge, Louisiana 70803
País Estados Unidos de Norte America.
Confirmamos su reporte con fecha 25 de Abril
de 19 71 que fue bien malo conforme datos
enviados a esta Radioemisora La Voz de Nahualá.

Transmisor PHILIPS - Operamos con un Kilowatio - Banda de 90 metros
Antena horizontal de 42.40 metros - Altura 22 m.

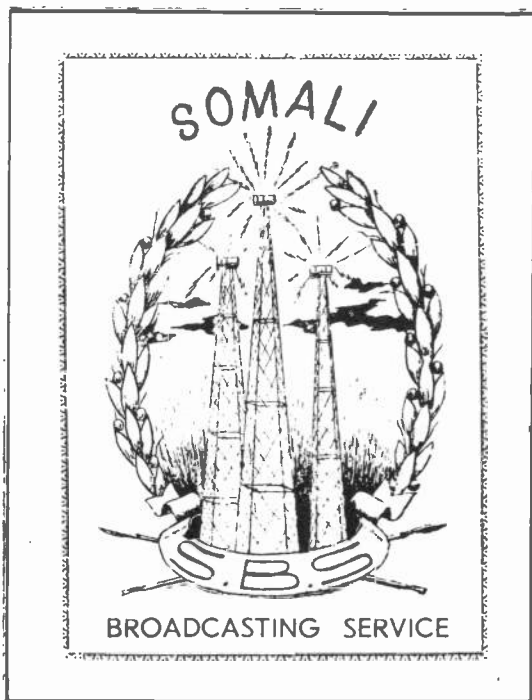
Gracias por su
amable reporte.

Thank you
for your report.

RADIO LA VOZ DE NAHUALA
Nahualá, Depto. de Sololá
Guatemala, Centro América.

About the only way to get a complete verification out of Zanzibar these days is to log and verify the rare utility station EAST AFRICAN EXTERNAL TELECOMMUNICATIONS COMPANY, LTD the way Mike Macken did.

42 Special thanks go to Richard Wood for submitting to us the fine photo-copy of La Voz de Nahuala.



Thanks go to Jim Lovell for his photo-copy of the SBS station at Mogadishu in the Somali Republic.

At times, this station can be heard signing on at 0300 GMT on 6093 kHz.

BY AIRMAIL

POST CARD

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"Q. S. L."

This confirms your receipt of the Broadcast from SBS
Radio Mogadishu on 6/9/71
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GMT on 0309 to 0355
with gratitude.

[Signature]
Chief Engineer
SBS
Radio Mogadishu

SOMALIA 1000
L500
1000
1000

TO
Mr. Jim Lovell
3953 Nassau Ave.
LOUISVILLE
KENTUCKY
(U. S. A.)

NEED TONGA? OR GILBERT & ELLICE?

try the BCB!

by JAY MURLEY, NRC/IRCA/SPEEDX

With 2000 watts at 4912 kiloHertz, Tarawa in the Gilbert and Ellice Islands is not widely heard by North American DXers; the 300 watt rig on 3220 must have even been tougher. Nor could the 100 watt transmitter on 6050 ten years ago been any bargain with HCJB and the BBC sharing the frequency. BCB on 844 wasn't easy then as only 50 watts of power were being used.

Tonga has been strictly BCB for a decade, when it signed a 10 kilowatt rig on 1020. Perhaps either or both have some sort of potential for the utility chaser, but I can't imagine either booming into the US mainland.

With this in mind, perhaps the following may be of interest. It is reprinted from the author's current article in the Broadcast Band Press:

The most hunted and most reported station over the last year and a half has been TARAWA. It occupies a nice (for most of us) split frequency: 844 kHz. And it's from an exotic-sounding little place called the Gilbert and Ellice Islands, a British Crown Colony best known to stamp collectors and Second World War buffs. If you're new to the hobby and feel that you're chasing stations that all the oldtimers blithely regard as un-needed, the story of Tarawa receptions should prove of interest.

With barely-noticed advance publicity and no sure word about timing, Colonial officials put their 10,000 watt rig on-the-air. Apparently, Professor Richard E. Wood then in Honolulu was the first DXer to log them. Like a few minutes later. Perhaps the Aussie's and the Zedders were next, but in any case, Richard's reports to the DX publications had to wait for the post office to handle the mail. And in the meantime, the station had not gone completely un-noticed in the West. Larry Godwin heard it in Colorado. Thanks to quick phone calls to DXers like Don Kenney of Santa Monica, CA stating "I-know-what-I'm-hearing-but-I-can't-believe-it, etc.", many in the West logged them that same first night (yours truly included). In Northern California, Clarence Freeman discovered them independently. Within two weeks, Tarawa would dominate both IRCA's and NRC's international sections. After so many S7-S8-S9+ reports from the West, it was inevitable that interest would soon focus on Eastern receptions.

Alan Merriman in Virginia was first to hear them and correctly report them: Ben Dangerfield in PA was the first to QSL them on the Eastern seaboard. Near Boston, concerned DXers piously gathered in Watertown (home of the NRC's admiral) to pray for a WHDH-850 kHz transmitter failure, but to no avail. Loggings were piling up rapidly, until the station could not be heard for a few weeks. Tarawa's new facility was undergoing repair. Since then, it's been in again and out again, for Tarawa is a long haul from the mainland.

more

From September on, Tarawa is especially good from 0800 to 0900 GMT on Monday Mornings; in any case, before WHAS signs on at 1000. This is assuming that this station still has its silent period on Monday Morning. In the West, you can listen later, but watch out for KOA's Monday Morning OC, normally about 1025 or so. Prior to about 0705, KOA's presence and local sunset preclude reception. Co-channel problems exist only in the East: Rome-843 was riding over Tarawa's-844 on Merriman's first tape! 840 has two stations with no silent periods which are the Cuban and the Columbian, (either or for some, both) are easily loopable. 850 offers the same NSPs (no silent period) among the Latins, Cuba and Colombia, adding WRAP, WHDH and CKVL (both of whom offer Sunday Morning s/off, the equivalent of Monday Morning NSPs). Assuming that you don't live in or to the close West of Boston, Montreal, or Norfolk, there's much to be said for spending five minutes checking 844 on a Monday Mornin', in season that is.

Culled from my pen notes and back issues of the NRC's and IRCA's international sections, here are the typical items heard: native male annrc and mx: 0740-0745; male in English with apparent news 0748, ID and/or IS 0800, native male and/or female annrc with mx 0800-0915, English language lesson 0915, s/off w/GSTQ (that's God Save the Queen) at 0935. Time checks are often reported; they're GMT plus 12, which is a little un-nerving if you're not used to hearing GMT on BCB and have to think out all these conversions for everyone else. Music does vary. In the Polynesian area, it varies from Hawaiian-sounding slæk string to chants to bouncy Tahitian cuts; mix in a few familiar rock cuts, some lush instrumental, and some hymns: and let the announcer on the board pick from the pile by some unreported selection process.

This station shocked the DX world in early 1970; it's still a fine catch for anyone today. (A few DXers experienced QRM from an alleged Nibi-Nibi station near this frequency. In reality, that's only a San Diego pirate that's wandered up from its self-assigned 840 kHz.

Until Tarawa went to major power, the most hunted and often reported mid-Pacific station was ZCO, the voice of TONGA Broadcasting Commission. It's been logged in New England and the Mid-Atlantic states by DXers who nulled out Los Angeles' KGBS and suffered through an occasional KDKA or KSWs OC on Monday Morning and by Californians who enjoyed armchair reception on any severe auroral night but Monday morning after all-talk KSWs s/off at 1000 (hopefully, they won't go to 1100). The pattern still follows: if you have a loop, knock out the Columbian or Venezuelan: on a good South Pacific opening, ZCO is over/under KGBS or KDKA depending on your location, loop angles and the "good ole aurora".

In format, it's rather like Tarawa, except that: 1) ZCO carries commercials and 2) doesn't offer quite the same "stiff upper lip" English lesson approach of the BBC-supplied programming. The IS is weird flute sounds; the slogans include "This is the call of the Friendly Islands" and "This is the Tonga Broadcasting Commission". Best reception times: 0715-1015 GMT.

MORE GILFER NEWS

GILFER customers may now charge purchases through MASTER CHARGE - INTERBANK. This new system was put into effect on November 15, 1971. Purchases may be charged by specifying the Master Charge Account Number; Interbank Identification Number and expiration date of the card.

NEW ITU FREQUENCY LISTS are now being stocked by the New Jersey warehouse of GILFER ASSOC. These lists were formerly only available direct from GENEVA, SWITZERLAND. Late word from Gilfer is that they are temporarily out of stock. For more information write them at the address given below.

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SPEEDXTRAS

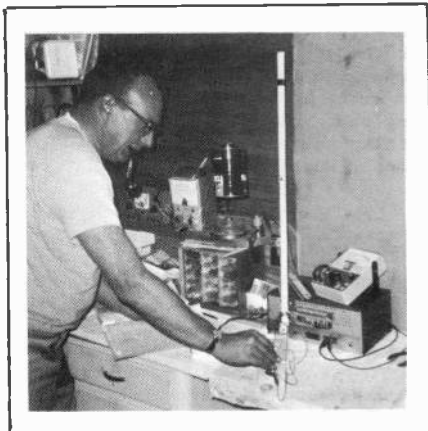
The Projects Division of SPEEDX

Projects Coordinator • Jack White 780 NW Wallulla Gresham, Oregon 97030
Associates • Andy Kerr 555 West D Ave Creswell, Oregon 97126
• Anthony Marks PO Box 521 LaGrande, Oregon 97850

Pictured at right is the author in his "lab" putting a prototype of the SPEEDX SHORT-SNORT antenna through operational testing. The unit is designed so that it may be constructed without the use of solder if desired, and the total component cost will be in the neighborhood of \$2.00!!

While the 30 inch antenna cannot be expected to perform in a class with the mammoth outdoor tuned arrays, all indications are that it may prove quite useful for SWLs operating in cramped quarters or for those occasional times when portable DXing is desired.

Complete construction details will be available in the near future through the SPEEDXTRAS division.



REFERENCE LEAFLETS

It is the intention of SPEEDXTRAS to upgrade the RL program by going to photoreduction offset production for these leaflets. This will afford the opportunity to present more material (including graphs, illustrations, etc) per edition, as well as becoming a neater and more practical reference. For "active" SPEEDXers the cost will remain the same...only a SASE!!! Two very promising offerings are currently on the drawing board; they are:

Dxer's Postal Guide

The idea here is to present just about everything the SWL needs to know about negotiating the mails—both to and from most countries of the world. Compilation is under the direction of Anthony Marks, who in addition to being an SWL of notable accomplishment, is also employed in the Postal Service. Even with these credentials, Anthony notes a few areas where his experience and the official information are incomplete. Therefore, in order to prepare the most comprehensive reference possible, he requests that anyone having recent information on the postal policies of the less-often-heard-from countries or those nations not maintaining diplomatic relations with the US send it along to him at the above address. (*)

Russian Station Guide

much of the available data pertaining to local and regional stations within the USSR is rather incomplete if not downright sparse. Andy Kerr hopes to get it all together into one single publication. Although the aid of several internationally known experts is being solicited, Andy would greatly appreciate receiving any scrap of useful information from SPEEDX readers that pertains to any Soviet station other than R Moscow or R Peace & Progress (address, QSL policy, etc, etc). In piecing something of this nature together, no item is too small—send whatever you might have to Andy Kerr at the above address. (*)

(*) NOTE: Those assisting in either of these compilations by contributing information will receive a full reporting credit in accordance with SPEEDX Earned Credit procedure.

UTILITIES HANDBOOK

WOULD YOU BELIEVE 28 pages of utility station addresses and QSL data?? .. or complete information on aeronautical weather (VOLMET) broadcasts from the 4 corners of the World?? .. or a 3 page run-down of the major time stations?? .. or another 3 pages of Coast Guard cutters alone?? All this and much more of vital interest to the DXer is contained in the Utilities Handbook prepared by Paul Mayo and Steve Handler now on advance sale through SPEEDXTRAS. To reserve your copy and to take advantage of the pre-publication discounts, send your order, along with a check or money order, to:

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Advance sale prices are: "Active" SPEEDXers...\$2.00 All Others...\$2.50 (postpaid)

The ordering deadline for these discounts is 31 December 1971. After that, the regular \$3.00 base price will apply. Delivery is scheduled prior to 15 January 1972.

Owner's Report - on the ALLIED RADIO SHACK SX-190 Receiver

BY OLIVER ELLSWORTH, LOS ANGELES, CALIF.

Persistent rumors are that the SX-190 was introduced to offer stiff competition to the well known Drake SPR-4, that the SX-190 and AX-190 are produced for the Tandy Corporation, by Drake's Japanese subsidiary, for outlet through Allied Radio Shack, who wishes to establish a better rapport with the "Ham" and Short-wave listening group.

John Drew, (founder of Radio California USA) is the proud owner of a Drake SPR-4. With John's hospitality we set the SPR-4 and the SX-190 side by side for approximately six hours, for a comparison test. Two separate antennas were used, interchanging them periodically for a fair test. Both receivers performed beautifully. John was impressed with the SX-190, as I was with his SPR-4. Sensitivity, selectivity, calibration accuracy, all appeared to be on a par.

The main tuning dial, like the Drake is divided in increments of 10 kHz. The dial skirt, which is held in place by a friction clutch, which allows easy adjustment for calibration, is divided in increments of 1 kHz. A full revolution of the dials will cover 500 kHz. This is the principal of the direct frequency dialing, a feature of both receivers.

The SX-190, among other things, is equipped with; RF, and AF gain controls,--mode selection switch, for AM,--Lower and Upper side bands,--ANL,--and Stand by.--"S" meter,--front panel 1/4 inch phone jack,--a band switch, which selects one of eleven meter bands,--a preselector to assure maximum sensitivity, and a high signal to noise ratio. The receiver in addition to the above, is also equipped with a 25, and a 100 kHz. calibrator switch, a "Q" multiplier, for band spread, and rejection tuning. (See listening aids for your DX shack. Page 6, Nov. issue of SPEEDX.) The "Q" multiplier, not only eliminates the weak signal, but in many instances, will eliminate the splatter from giant transmitters on adjacent frequencies. The SX-190 allows for a transmitter hook up, therefore the stand by switch. Another fine feature of the SX-190, is that it's designed to accept a PI-259 coaxial cable connector.

The SX-190 receiver is designed to operate from a 50-75 ohm unbalanced antenna input, therefore a single wire inverted "L" type antenna is compatible. The Drake requires, more so, a cut antenna. Mr. Drew's antennas are the "L" type. Therefore I have not elaborated on the fact the SX-190 excelled in readability on at least one occasion.

The SX-190 is not designed to tune the standard broadcast bands, or below 3.5 MHz. The receiver also does not have a built in speaker, which the Drake has.

The complaints I have heard about the SX-190, are technical problems, in the "front end". However the receivers performed extremely well after the bugs were out, by resoldering of several components. I have been told.

My receiver has been operating on an average of 8 to 10 hours a day since September 24th 1974. With fingers crossed, and knocking on wood. I say, bugs have not developed yet.

OLIVER ELLSWORTH
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