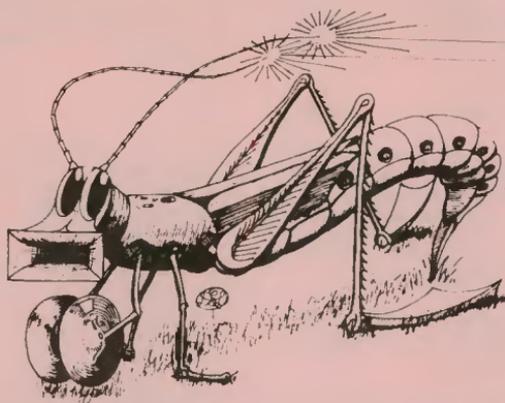


Have you ever tried to work out the bugs in your RX without really knowing exactly what it was you were looking for? Well we'd like to introduce one common critter everyone's heard, but up until now has never seen (or devised a cure for), and he's the incomparable...



## *Qacophonae Radioscera Multijammera*

COMMON NAME: DRY

DESCRIPTION: Nature has equipped this common pest well for his favorite activity: interfering with radio signals. He has every noise maker biologically possible: siren-type mandibles, xylophone-like appendages, rasps, "wobble-boards", and cricket-like wings. His legs are not only capable of making a variety of noises, but also of transporting this creature easily from frequency to frequency. He generates powerful RF by rubbing his wings, but is not in the least bothered by it because his dorsal appendage makes him well grounded when he jams it into the soil.

HABITAT: Males are found around transmitters only. Females, known as "QPN", frequent receivers and transmitters alike, in all climates and parts of the world.

CONTROL: None is known to exist, as his only possible vulnerability is his insatiable appetite for politics. But as long as there is politics on this planet, there is no hope of this species becoming extinct.

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**JANUARY - 1977**

P.O. Box 13  
Liberty IN 47353

North American SW Association



## report

My twelve year old nephew recently had to do a project for his class in advanced woodworking. Needing an idea, he naturally came to me with his problem. I gave the matter a few moments of thought and then suggested that he might do a survey of shortwave listening attitudes and opinions. To get him started I turned over to him the mailing list of my club, The International Worldwide Continental DX Association.

The project is now completed and I've been looking over the forms and I thought you might be interested in some of the comments from those who responded to the survey.

Here they are:

"The IWVCDXA bulletin printing is too small."

"I think this survey is a fantastic idea! I hope the results will be published and sent to the presidents of all the radio-making companies. Surely when these people see how enthusiastic and clean-cut listeners really are they will start producing shortwave sets again."

"The bulletin is printed unevenly."

"As an older DXer, I'm becoming fed up with this hobby. There is no way I can compete with these young guys who are able to stay up and DX all night."

"Glad to respond to your penetrating questions on our hobby OM. Incidentally the SW band starts around 1605 kHz, not at 49 meters."

"The print in the bulletin is too large."

"I hope that stations will see copies of your compilations. We need more on the air than the same old international news, ethnic music and dumb interviews. The stations should program more for the younger audience -- run some cartoons and learn how to pronounce words properly."

"The bulletin is too hard to file. Can't you run it off on shorter paper and pre-punch holes in it?"

"Having lost both ears in an industrial accident I am no longer active. Leave me alone."

"The print in the bulletin is too close to the paper."

"Who the hell are you anyway?"

"Obviously, in preparing your questions, you did very little advance research. Certainly you neglected to study my doctorate paper entitled 'Short Wave Broadcasting - Too Little or Too Late, A Study of International Broadcasting as it Affects the Captive Audiences in Dental Offices, Parked Couples and Ice Cream Peddlers.' North New Jersey Technical Library, 1968. Read it and try again, dumb-dumb!"

"Who paid for this thing?"

"I like sitting under the weeping willow tree in my back yard, eating chocolate eclairs, picking my thumb and listening to SOS messages on my Stargazer portable. What does 'MHZ' mean?"

"Funny-looking card OM! Sorry, I'm not a swapper."

"I am returning the form as you asked. Please let me know if I won anything. Thank you."

"Dear Sir: This survey could not have been meant for me. I don't know anyone in the navy, much less any short waves."

I still say it was a good idea, even if my nephew did flunk woodworking.

# NASWA

A REPORT FROM  
HEADQUARTERS

NORTH AMERICAN SHORT WAVE ASSOCIATION POST OFFICE BOX 13 LIBERTY, INDIANA 47353 U.S.  
JANUARY, 1977

BEHIND THE SCENES AT NASWA: I suppose a lot of people assume that producing the monthly FRENEX and DX Hotline is a mechanical sort of thing with everything falling into place according to plan and Presto!.....FRENEX is in the mail the first Saturday of each month. Not always so.....case in point, the December issue.

Due to moving into new quarters in Carbondale, Illinois, David Walcutt, our LR-D editor was not able to finish typing his section until the evening before the copy was due in Park Forest, Illinois, some 300 miles to the north. Dave called publisher Mayer about the situation and they concluded there was no way the material could be sent through the mail and guarantee it would arrive the next day. Later that evening, Dave hopped the Illinois Central train to Chicago and delivered the copy to Alan in person the next morning in Park Forest.

In the meanwhile up in Connecticut, LR-B editor Sam Barto found it necessary to enter the hospital due to an ear infection as his deadline drew near. He enlisted Joe DiLeo of Waterbury, CT to take on the work to do the section, which he did an excellent job on, and got it to the publisher on time.

Back in Park Forest, two photo pages scheduled for the December sent by Ed Shaw are lost in the mail and substitute material has to be used and the addressing machine has broken down while in the process of addressing the covers. Luckily, Dave Walcutt is still there so Alan enlists his assistance to manually operate the machine to complete the job which took over four hours for both to do a job that is usually an hour for one person when things go right.

We relate this saga as an example of some of the dedication of our staff to try to make FRENEX a worthwhile effort for all.

BAY AREA DX'TRIVAGANZA: What promises to be a very worthwhile DX event will be held on Saturday, January 29, 1977 at the Serramonte Branch of the Daly City Public Library (about 5 miles southwest of San Francisco).

The program, which is scheduled to begin at 10:00 AM sharp, will include receiver demonstrations, DX quizzes, tapes of rare stations, and several talks by well known DXers are being scheduled. The registration fee is only \$1.75 and payable at the door. For full information, write co-chairman Larry Nebron, 27 Garden Grove Drive, Daly City, CA 94015, or call 415/756-0735.

USSR HIGH FREQUENCY BROADCAST NEWSLETTER: This new bulletin being edited by Roger Legge, who is well known in DX circles as an authority on Soviet broadcasting, will deal with informing listeners of Radio Moscow and other USSR high frequency broadcasting stations of late frequency changes, transmitter sites, station schedules, tips on hearing the Soviet Republics, etc.

A subscription price will not be established until there is an indication of the amount of interest in this sort of publication. A sample copy may be obtained by sending a .13¢ U.S. stamp or one (1) International Reply Coupon to Roger Legge, P.O. Box 232, McLean, VA 22101. The sample received here at HQ indicates this will be a great value to anyone interested in this area of DXing.

SOMETHING TO WATCH FOR: In the near future a new "Special Publication" will be announced as being available from the club printer, Jerry Lineback. This will be an article written by NASWA member John Tuchscherer, Neenah, WI on the subject of propagation for the beginning DXer and will explain in easy to understand language how radio signals are able to span the distance between the transmitter and the listener's radio receiver. Watch for an announcement in a future FRENEX.

THE NEW LOOK OF FRENEX: A special thanks to Diane Levesque, Carbondale, IL for the design for the December FRENEX cover. Starting with this issue, all FRENEX sections are using a new section heading. Credit for these goes to Wesley Thompson, Huntingdon Valley, PA. Also, anyone having received mail from HQ recently may have noticed that we are now using a postage machine and the logo for our meter was also provided by Wes Thompson.

# shortwave CENTER

•Editor: Jerry Lineback  
Box 325, St. Joseph, IL. 61873

JAN 77

Welcome to a new year of FRENEX and Shortwave Center. We thank all those who contributed to making FRENEX the great DX hobby magazine it is. Special thanks from your editor to those who contributed articles to SWC. Please keep the good material coming in the new year. Remember that timely material should be here by the 10th to make the next issue.

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## DECIBELS

DECIBELS CAN BE DECEPTIVE

by Morgan Monroe, Sandpoint ID

Regardless of the form their reception reports may take, many SWLs judge signal strength solely in terms of what their S-meters indicate. Invariably, stronger signals are distinguished from others on the basis of how many "decibels over S9" the meter indicator travels.

What does "decibels over S9" mean? What does S9 represent? What is a decibel? Few SWLs can answer these questions accurately despite continuing reliance on the decibel when judging signal strength.

As the first four letters indicate, a decibel is one-tenth of a bel. Depending entirely upon how the term is applied, decibels may be used to express relative increases and decreases in power, voltage, and current. Thus they can express either of two things: relationships of power or, in the second usage, relationships of voltage or current. This dual application is a constant source of confusion among those who don't understand it.

Additional confusion stems from the erroneous belief that, like the volt or ohm, the decibel is a specific unit of electrical measurement. Not so; it is a numerical expression of a ratio. Confusion begins to clear, however, once the background and proper application of this widely-used, frequently-kicked-around term is understood.

The decibel dates from the early days of telephone research when it was learned that human hearing response does not increase proportionately with the power of sounds heard. Investigators discovered that when the power of a sound is doubled, it doesn't seem twice as "loud" to the listener. But at that time researchers lacked a form of notation with which to indicate power amplitude ratios.

As the human ear's response is logarithmic - - detectable change increases with sound level - - those engaged in the research devised a logarithmic expression of relative power. They named the ratio unit the "bel" for Alexander Graham Bell, dropping the final "l" in the process. A tenth of that unit became the decibel, abbreviated dB, which appears on S-meters, VU meters and elsewhere. (Note: The decibel is neither a basic nor a derived unit in the SI system. However, to be consistent with SI usage, it should be written dB because the bel was named for a person, Bell- editor.)

Decibels can be deceptive, not only because they are used to express two very different kinds of ratios, but also due to frequent misapplication. The latter is not always accidental. Some manufacturers of receivers and other electronic equipment loosely employ the word "decibel" to mean many different things as they choose, thereby further compounding confusion.

The impact of this cumulative confusion is extensive. Most SWLs probably have more accurate knowledge of the moon's surface than of use and misuse of the word "decibel."

This is demonstrated by widespread failure to obtain reliable information despite its ready availability together with resulting acceptance by many SWLs of popular fallacies in lieu of established scientific and technical fact.

For example, the uninformed have been led to believe that a 3 dB gain appearing on an S-meter indicates doubling of signal strength in terms of power. Not only is this false, it's physically and mathematically impossible. Most S-meters indicate current, not power. Current is voltage divided by resistance whereas power is the product of voltage multiplied by current.

The typical S-meter indicates in milliamperes, small units of current that have no direct relationship with signal strength. The latter can be measured accurately only in microvolts at the receiver's antenna input with the aid of test equipment rarely used or owned by SWLs. A big step toward resolving decibel confusion is awareness that typical S-meters always indicate changes in current, not power (see S-Meters Can't Be Trusted in the August, 1976 SWC).

Differences between dB increases in voltage-current ratios and in power ratios are substantial. As the following table indicates, a 15 dB power gain represents a ratio of more than 31. But a similar dB gain in voltage or current is less than one-fifth the power gain indicated by the same number of decibels.

dB	Voltage or Current Gain Ratio	Power Gain Ratio
3	1.413	1.995
6	1.995	3.981
10	3.162	10.00
15	5.623	31.62
20	10.00	100.00

As most S-meters are current-operated devices, their gain indications are the ratios in the center column above. Since they measure only current, they cannot indicate the kinds of power ratios in the column at the right. But manufacturers and retailers of some receivers don't make this significant difference clear, either in advertising or across the counter.

Nor is it often pointed out that statements of gain expressed in decibels have no meaning unless based on a realistic reference level. Many reference levels--too many-- are used by manufacturers of electronic equipment.

This is evident on receiver S-meters. Some read to 20 or 30 dB above S9 while others are indexed to 60 dB or more. In view of such uncertain, widely-varying practices, it is apparent that judging the strength of a received signal--which we hear as audible power--solely by non-standardized readouts of current is erroneous, as are signal reports based on such readings.

Equally obvious, but seldom understood by SWLs, is the fact that S-meter readout values are determined by the reference level, the zero dB point, selected by the receiver manufacturer. Regrettably, some use ridiculously low levels, with correspondingly high S-meter ranges, in convincing the unwary that their products compare favorably with those of reputable manufacturers.

Growth of this practice has been marked by ever-higher dB inscriptions on the S-meters of some receivers. Each "new" model contains a meter with higher dB markings than the previous model. Use of microameters ( $10^{-6}$ ) instead of milliameters ( $10^{-3}$ ) is another practice frequently aimed at the same objective.

There has long been an effort, fully supported by reputable manufacturers, to gain general adoption of the reference-level standard used by honest makers of electronic equipment. This is based on one milliwatt of power dissipated in a 600 ohm resistance as the zero point for voltage-current decibel ratios. But some manufacturers have not gone along with this sensible practice for obvious reasons. Thus the decibel remains deceptive for those who don't know what it is or how it is properly applied and improperly misapplied.

Does all this mean anything to our ears when tuning receivers? Yes, but probably not what you have been led to believe it means. When the power of a sound is doubled, most of us with normal hearing can just detect the 3 dB gain. Doubled voltage or current, as expressed by a 6 dB S-meter gain doesn't mean that power is thereby quadrupled, as would be true of a 6 dB power gain, a common misconception. Unfortunately, such confusion is encouraged by loose use of the term "decibel" to mean all manner of things. Clearly, a distinction should be made between power and voltage-current where decibels are concerned.

The logarithmic nature of the decibel is rapidly apparent at the 20 dB gain level where the power ratio is exactly ten times the voltage-current ratio. Mistaking one for the other, as many do, introduces a 90 per cent error of the kind often contained in reception reports.

And, as multiple-receiver owners sometimes learn, a signal peaking at 20 dB above S9 may

mean anything from comfortable headphone listening to a real speaker-rattler, a condition over which the SWL has no control at the source of the problem. For this and other reasons some experienced SW DXers and many ham operators disregard S-meters. They judge with their ears, the basic signal-strength indicators.

Beware the deceptive decibel. Unless your hearing is impaired, trust your ears, not a current-indicating S-meter. Bear in mind that human ears served as models in devising the bel and its misused, troublesome little brother.

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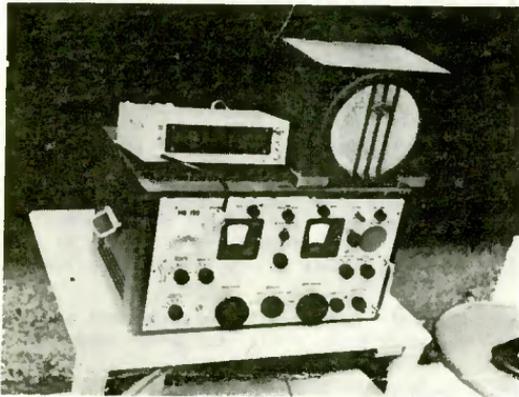
## DIGITAL

DIGITAL FREQUENCY READOUT FOR RECEIVERS by Bob Foxworth

It is a desirable goal for all DXers to have as accurate a frequency readout as possible. This normally implies that the DXer use a very expensive receiver that may not offer other features such as selectivity options or certain frequency ranges. Thanks to modern electronic technology that has been developed during the past few years, it is now possible to use a digital frequency counter with one's existing receiver to obtain an indication of the frequency to which the

receiver is tuned, to within a nominal range of 100 Hz. This is not the ordinary frequency counter one sees advertised in ham radio magazines, but is one incorporating a pre-programmed offset to allow for the difference between the receiver's local oscillator signal (which drives the counter) and the received signal's frequency. This of course is the receiver's IF frequency.

To the left is an illustration of the unit used by the author, connected to a Hammarlund model HQ-150 receiver. The counter of course has to be constructed by the DXer as it is not possible to buy such a unit in the market, with a couple of exceptions that have not been well publicized in areas that would be noticed by the average SWBC



listener. This unit is connected to the receiver by a single coaxial lead which provides the local oscillator signal, through an isolation stage that has been installed inside the receiver. The readout provides an exact indication of the frequency that the receiver is tuned to, throughout its full tuning range from 535 kHz to 20 MHz. The indication would be higher still but for a trick used by the author in order to get a 6 digit presentation using electronics for only 5 digits (at some cost saving). The total cost of the counter parts, if it were duplicated today, would probably be in the \$85 range. This, coupled to a receiver costing about \$130 on the used-gear market, gives readout superior to the R4B and SPR-4 and equivalent to the R-390 at about a third of the cost. At the same time, we retain use of the selectivity features of the HQ-150 (crystal filter and self-contained Q-multiplier) that are simply not available on sets such as the SPR-4 and many other popular receivers such as the SSR-1 and DX-series. All in all, DXing the tropical bands is a snap with this set-up.

In practice, the counter must be programmed to begin counting at 99548.0 in use with this particular receiver whose IF center frequency (when aligned to the crystal filter) is 452 kHz, when operating on the 4 lowest ranges where the local oscillator injection is on the high side. On the 10-18 and 18-30 MHz ranges, the preset for the counter is changed to 00452.0 (where LO injection is on the low side). This is done in my case by throwing slide switches but may be done more easily with a thumbwheel switch, at some increase in cost. Internally the counter uses a 100 kHz crystal as a timebase oscillator, which generates the gate, strobe and reset pulses needed to step the logic in the proper sequence. The count updates 50 times a second as the receiver is tuned, and does not blink or flicker. In the illustration above, the receiver and counter are shown tuned to 9635 kHz, and the tenths digit is not on in this particular case. On the front panel are the power switch, a preset switch, the 100 kHz trimmer, 0.1 kHz digit blanking, input jack and 100 kHz test jack. Exact measurement is made with the BFO on, and tuning for zero beat. Normally when tuning AM, readings are made to the nearest kHz. This counter will be extensively written up in the NRC's DX News this fall. Inquiries and comments may be addressed to the author, Bob Foxworth, GPO Box 2111, New York City 10001-SASE must be included if a reply is expected. We hope this will be of interest to all.

**REPRINTS**

Below is a list of selected articles appearing in FRENDX since July 1973. Most of these are from past Shortwave Centers. The list is presented because these are available to your SWC editor and may be of interest to new associates. I will make a machine copy of any of the listed articles and send it to you POSTPAID for 25¢ for the first page and 10¢ for additional pages on the same order. Coin, checks (to J. A. Lineback), or U.S. mint postage stamps (standard denominations) accepted. Send requests to your SWC editor. Page numbers given below are the number of machine copies needed to copy the entire article and do not refer to FRENDX pages.

ARTICLE-EQUIPMENT REVIEWS		Issue	Pages to copy
1.	NASWA reviews the Joy Stick Antenna	Jul 73	1
2.	The SB-313 (Heathkit) receiver	Aug 73	1
3.	The "Unique Wire Tuner"	Oct 73	1
4.	The Autek Q-box	Dec 73	1
5.	The Gilfer FM-IICX preselector	Jan 74	1
6.	Hammarlund SF-600 military surplus receiver	Feb 74	2
7.	National HRO-500 receiver	Mar 74	2
8.	The Kilburg Geochron	Apr 74	1
9.	The Barlow Wadley XCR-30	Apr 74	1
10.	Mini-review-Lafayette HA-600A	May 74	1
11.	5-band solid state-DX-160	Jun 74	1
12.	Radioshack Astronaut 8	Aug 74	1
13.	Drake SPR-4	Aug 74	2
14.	Yaesu FR-101, digital readout deluxe receiver	Sep 74	1
15.	Drake 2C receiver	Mar 75	1
16.	Becker Autoradio SW converter	Mar 75	2
17.	R-392/URR military surplus receiver	May 75	1
18.	The Stennheiser HD-414 headphones	Jul 75	1
19.	A new general coverage receiver-Drake SSR-1	Sep 75	1
20.	An active audio filter for voice frequencies	Sep 75	1
21.	Military surplus-the R-390A receiver	Oct 75	1
22.	The Realistic DX-160	Nov 75	1
23.	The Sony ICF-8000 portable	Jan 76	1
24.	The Ameco PCL-P preselector	Jan 76	1
25.	Drake SSR-1 users review	Jul 76	2
26.	Kenwood QR-666 users report	Jul 76	1
27.	Comments on the SSR-1	Aug 76	1
28.	The Gilfer C-10 calibrator	Aug 76	1
29.	The Yaesu FRG-7	Oct 76	1
30.	There is a Frog (FRG-7) in your future	Nov 76	1
31.	The R-390A military surplus receiver	Nov 76	3
32.	The Dymek DA-100 all wave receiving antenna	Dec 76	1
ARTICLE-SWBC STATIONS			
33.	Shortwave radio in the Dominican Republic	Oct 72	3
34.	Radio Belize	Oct 72	2
35.	XEBR-Hermosillo, Sonora	Jan 73	1
36.	Radio Sahara	Jan 73	1
37.	CKFX-Vancouver	Feb 73	1
38.	Radio Maldives	Mar 73	2
39.	SWBC in Guatemala	Apr 73	3
40.	Voice of Meterology-Turkey	Feb 73	1
41.	Radio Kiev	Jul 73	2
42.	KGEI-the Voice of Friendship	Aug 73	2
43.	La Voz de Galapagos	Sep 73	1
44.	DX trip to Guatemala	Oct 73	2
45.	Radio Citadelle-Haiti	Oct 73	2
46.	Radio San Miguel, Bolivia	Oct 73	1
47.	Puerto Martinez, Colombia	Oct 73	1
48.	RRI-Ujung Pandang, Sulawesi, Indonesia	Jan 74	1
49.	Vatican Radio	Feb 74	1
50.	Spotlight on Qatar	Mar 74	1
51.	Radio Malaysia	Apr 74	1
52.	Report from Togo	May 74	2
53.	Historical-The Wireless Road, radio station WCC Cape Cod, MA 1902-1917	May 74	1

54.	Polish Pathfinders	Jul 74	1
55.	St. Helena Broadcast Station	Jul 74	1
56.	Radio Rio Amazonas	Aug 74	1
57.	DXing Indonesia	Aug 74	2
58.	The inside story of broadcasting in China	Oct 74	2
	Same article continued	Nov 74	5
59.	The future of American SWBC in the Pacific	Nov 74	1
60.	The Karelo-Finnish SSR	Dec 74	1
61.	Christian Radio Voices	Dec 74	2
62.	Que es la Federaci3n	Jan 75	1
63.	Radio Nacional de Venezuela	Jan 75	1
64.	Radio Nacional de Espa1a	Jan 75	1
65.	Radio Cordiac	Jan 75	1
66.	Polish Pathfinders	Feb 75	1
67.	Shortwave stations of Indonesia	Mar 75	2
68.	Facts about VoA	Apr 75	2
69.	TWR and SMR, Swaziland	Apr 75	2
70.	TWR Bonaire	May 75	1
71.	RPFK Simalungun, Indonesia	May 75	1
72.	Loja, Ecuador	Jun 75	1
73.	Japan Today	Jun 75	1
74.	The Sierra Leone Broadcasting Service	Jun 75	1
75.	Tourist in Indonesia	Jul 75	2
76.	DW in twilight	Jul 75	2
77.	Pirate and commercial Radio mark anniversaries in Britain	Aug 75	2
78.	Have you really heard Morocco?	Sep 75	2
79.	WINB-Red Lion PA	Oct 75	1
80.	Paz y Bien, Ecuador	Nov 75	1
81.	The Voice of America relays	Dec 75	2
82.	Radio Mam	Jan 76	1
83.	The Voice of the Philippines	Jan 76	2
84.	Radio New Zealand	Jan 76	1
85.	ABC-Australia	Jan 76	2
86.	Radio Jornal do Comercio, Brazil	Jan 76	1
87.	IBA-Why Israel uses out-of-band channels	Feb 76	2
88.	VNG-Australia standard time and frequency	Mar 76	1
89.	Ten years of the IBA-Israel	Mar 76	2
90.	Radio Tahiti	Apr 76	1
91.	Radio 4VEH-Haiti	May 76	1
92.	FEBC	May 76	1
93.	Radio Belize	Jun 76	2
94.	Afghanistan	Jun 76	1
95.	Lazrus-RNZ	Jul 76	1
96.	Missionary radio in Ecuador	Jul 76	1
97.	A conversation with Willy Sanders of the Belgian R&TV	Sep 76	2
98.	Tristan	Oct 76	2
99.	A day at SEC Berne	Oct 76	2
100.	Radio Mundial	Oct 76	1
101.	ORF-Vienna	Nov 76	1
102.	Falklands- F.I.B.S.-a tale of exotic DX	Dec 76	2
MISCELLANEOUS			
103.	DX Bookkeeping	Jan 73	2
104.	Foreign Broadcast Information Service (CIA)	Feb & Mar 73	5
105.	Semi-vertical 16-60 metre antenna	Feb 73	1
106.	Some considerations for frequency measurements for DXer	Mar 73	2
107.	The Forgotten Band-75 metres	Mar 73	1
108.	Direct readout for the HQ-180?	Mar 73	1
109.	FRENDX visits Gilfer	Apr 73	2
110.	Rebel invasion in Dominican Republic	Jun 73	3
111.	Antenna switching simplified	Jun 73	1
112.	The SWL as his own publicity man	Jun 73	1
113.	Tape recording - an aid to DXing	Jul 73	3
114.	Under \$10 inside antenna	Jul 73	1
115.	The Ultima antenna tuning unit	Jul 73	2

116.	Drake R4B-how to make a first rate receiver better	Sep 73	2
117.	How can I identify the rare DX stations?	Sep 73	1
118.	Antenna switching again	Sep 73	1
119.	Identifying the rare DX station-II	Oct 73	1
120.	A valuable tip on the SPR-4 preselector settings	Oct 73	1
121.	Diversity DX reception	Nov 73	1
122.	How can I QSL those rare DX stations	Nov 73	1
123.	The SW4-A crystal adapter	Jan 74	1
124.	USSR countries	Jan 74	1
125.	Understanding your S-meter	Jan 74	1
126.	Russian language report form	Jan 74	2
127.	Converting the Gilfer FM-IICX preselector to portable	Feb 74	1
128.	Noise blankers vs noise limiters	Feb 74	1
129.	Dumb little antenna that really works (whip w/coil)	Mar 74	1
130.	Earth's windows to exotic DX	Apr 74	1
131.	Spanish reception report form	Apr 74	3
132.	Interview with Jim Vastenhoud-Radio Nederland	May 74	1
133.	Ungrading the SX-190	May 74	1
134.	Interview with Tom Meyer-Radio Nederland	Jun 74	1
135.	Cycles of Solar Activity	Jun 74	1
136.	A method for keeping logs of your DX	Jun 74	1
137.	Local power company-a DXers friend	Jul 74	1
138.	A little straight talk on selectivity by Harry Helms (three parts)	Aug 74 Sep & Oct 74	5
139.	Subterranean DX and the Cerebral filter	Aug 74	2
140.	Frequency interpolation-how to calibrate your receiver	Aug 74	1
141.	Modifying the SX-190, additional crystals	Aug 74	1
142.	The first major sports broadcast	Aug 74	1
143.	Quick pre-tuner for your antenna	Nov 74	1
144.	Binding bulletins in a book	Dec 74	1
145.	The avoided 41 metre band	Dec 74	1
146.	Do we need a name? Replies	Dec 74 & Apr 75	2
147.	Travel long-distance with a radio	Jan 75	1
148.	Cutting costs on verifications	Feb 75	2
149.	ANARC Frequency Committee report on WARC-79	Feb 75	1
150.	Language teachers focus on shortwave medium	Feb 75	2
151.	Receiver construction-Bill Davis	Apr 75	2
152.	Understanding shortwave propagation	May 75	3
153.	Man-made noise	Jun 75	1
154.	Frequency interpolation with out graphs	Jun 75	1
155.	Tips on sinking ground rods	Jul 75	1
156.	Collecting pennants	Jul 75	1
157.	This is Finn-DX (DX program)	Jul 75	2
158.	Long delayed echos	Jul 75	1
159.	Antenna to receiver transmission lines	Jul 75	1
160.	Method of coupling receivers on one antenna	Jul 75	1
161.	Atmospheric noise	Jul 75	1
162.	Man-made noise	Jul 75	1
163.	Logs and DX records	Aug 75	2
164.	Inferential frequency measurement by Heterodyne analysis	Aug 75	2
165.	Indonesian ads	Sep 75	1
166.	Radiowaves in the atmosphere	Sep 75	1
167.	The helical-vertical antenna	Sep 75	1
168.	To COAX or not to COAX	Oct 75	1
169.	The DX Stamp Service	Oct 75	2
170.	How to increase the crystal capacity of your SPR-4	Oct 75	1
171.	Understanding shortwave propagation-the geomagnetic field	Oct 75	2
172.	Summer reception in Europe	Nov 75	2
173.	Improving your Heathkit SW-717	Nov 75	2
174.	Power for the R-392/URR	Nov 75	2
175.	What is a MUF?	Nov 75	1
176.	Multiband wire semi-vertical antenna	Nov 75	1
177.	Have a HAPPY day-the handicapped aid program	Dec 75	2
178.	WARC-79	Dec 75	1
179.	USSR verifying transmitter sites-how accurate?	Dec 75	2
180.	Used receivers, what's in them for you	Jan 76	2

181.	Operatiön Periquito	Jan 76	1
182.	<u>Radio Power</u> -a review of the book	Jan 76	1
183.	Geomagnetic prediction	Feb 76	2
184.	Soviet Radios	Feb 76	1
185.	The receiver dilemma	Feb 76	1
186.	Radio Austria ORF evaluates a years reception reports	Feb 76	2
187.	A circular logging scale for the DX-160	Feb 76	1
188.	Earthquake-Terremoto Guatemalteco	Mar 76	2
189.	A broadcasting analysis-Africa	Apr 76	2
190.	Radio Moscow transmitter sites - part 2	Apr 76	1
191.	DX related articles 1960-1975	Apr 76	1
192.	Dealers in surplus	Apr 76	2
193.	WARC-79-third meeting of the International Broadcasting Service Group	May 76	2
194.	Solar variability-is the sun a inconsistent star?	May 76	1
195.	The ionosphere and plasmosphere during geomagnetic storms	May 76	1
196.	African update	Jun 76	1
197.	Take it (your receiver) along	Jun 76	1
198.	Visual electronic language identification	Jul 76	2
199.	Travel advice	Jul 76	2
200.	Whip Antenna	Jul 76	1
201.	Stamp collecting with a shortwave radio	Jul 76	2
202.	Indoor antenna	Jul 76	1
203.	S-meters can't be trusted	Aug 76	1
204.	Measuring heterodynes with the Barlow Wadley receiver	Aug 76	2
205.	Pinyin-What is "Wulumqi" and dies it come with egg rolls?	Aug 76	2
206.	Compatible SSB or frequency spectrum conservation	Aug 76	1
207.	Russian transmitter sites verified by U.S. DXers	Aug 76	1
208.	Remedies for the WRTH	Aug 76	1
209.	The Antenna Semantics Hazard	Sep 76	1
210.	Recording propagation conditions	Sep 76	2
211.	Report on the Helical-Vertical antenna	Sep 76	1
212.	It all starts with Ramadan	Sep 76	1
213.	Who is Morgan Monroe?	Oct 76	1
214.	Goodbye to the WWV propagation forecasts	Oct 76	1
215.	TV Sweep Oscillator harmonic frequencies	Nov 76	1
216.	Those missing QSLs	Nov 76	1
217.	Dissertations on shortwave subjects	Dec 76	1
218.	Think before you buy that receiver	Dec 76	1
219.	A servicable ground	Dec 76	1
220.	Reception Report Forms	Dec 76	1
221.	Soviet Radio Interference	Dec 76	1

(Note: Articles reprinted in NASWA Special Publications are NOT listed above)

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**NASWA Special Publications**

Don't forget that the following reprints are available as NASWA Special Publications:

Special Publication One, KEEP IT QUIET, by Morgan Monroe, now 10 pages on noise and the elimination thereof, \$1.00 postpaid.

Special Publication Two, PRECISION FREQUENCY MEASUREMENT, by Charles Taylor, 12 pages on measuring frequencies to the nearest hertz, \$1.00 postpaid.

Watch for future special publications.

+++++

**Beginners Patch**

by David Haas

Radio Portugal has an english broadcast at 0230 on 6025 kHz, their news program seems to equal the BBC's and Radio Nederland's in length.

The easiest broadcast to get from Norway is the one at 1600-1630 GMT on 15175 kHz. The only problem with this station is that they try to sum up a week's news in 15 minutes. The other times and frequencies are almost hopeless.

BRT-4, Radio Belgium, has moved to a new frequency at 0015-0044 GMT, now found on 6085 kHz, but I think it is much worse than the old one of 9725.

A couple of Latinos to try, the Voice of Chile is on 9566 kHz at 0110-0130 and Radio Lara is often heard from Venezuela in spanish at 0200 on 4800 kHz.

## LEBANON

Exerpts from the Radio Austria Shortwave Panorama DX program of 28 November 1976 by Charles Wootten

During the hostilities this year and last in the Lebanon, radio listeners in Israel and other neighboring countries in the Middle-East were able to follow developments from first hand sources. Since the spring of 1976 all the factions in the Lebanese civil war had their own radio transmitters operating, for the most part, on mediumwave. Here is John Wilde to give us the story:

"The civil war had been raging on and off since spring 1975, but despite this, the Lebanese broadcasting organization, Radio Beirut, was able to operate normally during the first twelve months of strife. There were no propaganda broadcasts and no jamming. The Palestinian and Muslim left-wing groups received their propaganda backing only from stations located outside Lebanon.

In March 1976, General Aftab (spelling??), assisted by army deserters under the command of Lieutenant Al-Fatib made an unsuccessful putsch attempt, but captured the French domestic service of Radio Beirut, and immediately began transmissions with a 10 kW transmitter. The putsch troops found another 10 kW transmitter which was originally intended as a reserve transmitter for the 100 kW Arabic transmitter and tuned it to 836 kHz and started to successfully jam the transmissions of the government controlled main transmitter. The private commercial television company, TELE-ORIENT, was also taken over by General Aftab. The government retaliated by taking over the French private television company, COMPAGNIE LIBANESE DE TELEVISION, but radio broadcasts were incomprehensible in Beirut and the surrounding area because of the jamming. Only at a distance from Beirut did the most powerful of the two transmitters come through.

In order to be heard again throughout the country the government closed down its shortwave service and retuned the transmitter for use on 5.980 MHz. Later, an FM transmitter, which was used in better times to broadcast music programs for tourists, was used for domestic broadcasts, and the shortwave service was able to go on the air again. Later, the right-wing Christian militia started broadcasting with a 3 kW transmitter.

In early summer Lebanon thus had three competitive broadcasting organs. All claimed to be the true and legitimate "Voice of the Lebanon", and announced themselves in Arabic to be Radio Lebanon in Beirut. At 0730 local time, three totally different news programs full of venom against the competitive stations, went on the air. Only when political slogans or party news was broadcast was it possible to identify the station.

The Muslim transmitter called itself "The Voice of the Arab Peoples", and the Christian transmitter, "The voice of the Progressive Lebanese". Throughout the whole summer, the government station operated as close to normal as possible, while the two other stations broadcast practically only military music and political bulletins.

In June the "Voice of Palestine" came on the air on mediumwave. The station was operated by the Palestine Liberation Organization, the PLO, and during the most bitter struggles when Beirut was cut off from the outside world, the station broadcast news bulletins regularly in English and French. One journalist received permission to broadcast the report he had written, but was unable to actually transmit because the international telephone services were blocked. On the 9th of June, the Muslim transmitter went dead during a news bulletin at 1330 hours. Later that evening the station started transmissions again, but on a new frequency. The other transmitter, which had earlier been used to jam government broadcasts, remained silent."

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We have received much MAILBAG material and present it here for your information

### Mailbag

Apparently some folks wrote to Albert Pike II and told him that they thought the Fibonacci Ratio was a fib. But, as Albert writes, Leonardo of Pisa (commonly known as Fibonacci) was an Italian mathematician of the 12th and

13th centuries. In the primary equation "X is to Y as Y is to X plus Y" Fibonacci determined that the value of X can only be 0.3819660133 and the value of Y can only be 0.6180339867. Since, like pi, these are irrational numbers, there is no purpose served by carrying them beyond 10 digits.

In "DX-ING ACCORDING TO NASWA" page 12, there is some mention of the Window antenna. There the lead-in is to be affixed at 0.36 times the length of the antenna proper. That figure of .36 is only a approximation of the "Fibonacci Ratio" of 0.3819660133.

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Roger Legge, Box 232, McLean VA 22101, sends a sample copy of a new shortwave newsletter that he is starting. This one is devoted to USSR shortwave broadcasts and is



The Twelve hardest stations for Marlin to verify. The number refers to the number of reports sent before receiving verification.

3225 kHz	La Voz del Tigre, Ven.	29	9515 kHz	R. Saraneli, Uruguay	9
6055	R. Pan Americana, Br.	18	4995	R. Andina, Peru	9
5970	R. El Sol, Peru	15	6202	La Voz de Huamanga, Peru	9
4762	R. Inca, Peru	10	4835	Radiodifusora Roraima, Br.	9
3995	La Voz del Rio Torqui, Ec.	9	3295	R. Trujillo, Ven.	8
6075	R. Ariel, Uruguay	9	6010	La Voz del Volante, Ec.	8

What are your records?

\*\*\*\*\*

Chuck Mitchell WB9NWF, 113 Carlin Drive, Carmel, IN 46032, reports that he and some other amateur radio operators are planning a net for hams who are also DXers. They plan to have it on the 40 metre band on Saturdays. They have yet to select a frequency but they intend to conduct the net on a frequency of a broadcaster when they drop their carrier. Topics to be discussed vary over any phase of DXing. They would like to get an idea of how many people expect to check in, so if you are a DXing ham, or know someone who is, contact Chuck.

# FORMS

The article on reporting forms has stirred more interest than I expected. Below is another example. More in later issues.

TO: \_\_\_\_\_

FROM: Martin K. Allinuck  
10 Terrane Avenue  
Natick, Massachusetts  
01760  
United States of America

Date: \_\_\_\_\_, 19\_\_

Dear Sirs:

Today I had the great pleasure of picking up your station on the frequency of \_\_\_\_\_ meters, in the location of \_\_\_\_\_, Massachusetts in the United States of America. I received \_\_\_\_\_ of Boston, Massachusetts. The following is a report describing the program heard at \_\_\_\_\_ GMT on \_\_\_\_\_, 19\_\_.

I rate your radio broadcast with a \_\_\_\_\_ SINF0 rating.

Technical Comments: \_\_\_\_\_

My receiver is a Zenith "5000-1" Transoceanic portable. I use a 19 meter loop wire which is 6 meters above the ground.

I hope that this report is most helpful to you. I would very much appreciate receiving from you a verification (OSI) of this report if you find it correct, stating that it was your station \_\_\_\_\_ that I heard.

I thank you in advance hoping that I will receive a verification of this report.

Sincerely,  
Martin K. Allinuck

Member: North American Short Wave Association  
RCA Radio Club  
Ames Peers International

Post Script: \_\_\_\_\_

# Propagation Conditions by Jerry A. Lineback

Solar-terrestrial conditions continued in the quiet mode. The solar flux peaked on 14 December and is predicted again for 10 January and 6 February. Recurrent geomagnetic activity took place on 9 and 18 December and minor disturbances are expected on or about 3 Jan., 14 Jan., 31 Jan., and 10 Feb. Major storms appear unlikely and on most days, the geomagnetic field is expected to be quiet.

That is all for this month. Let us all work together to make FRENDX 77 better than ever. We will be looking for your contribution.

# SPECIAL *feature*

NASWA EXAMINES THE SONY ICF-5900W

by Edward C. SHAW

Some improvements have been made to the ICF-5900 since I first saw it this past summer for a short period. The FM band has been converted to U.S. standards, and the BFO is VERY sensitive.

The ICF-5900W is now available only in larger cities, but can be ordered by any local SONY dealer from Sony warehouses. It sells for about \$150.00, and that sounds like a reasonable deal to me. What's more, considering the price and what you get in the package, it just may be the best deal in America at the moment. Here are some of the basic specifications:

Coverage: AM, FM, and SW 3.8 MHz to 28 MHz (except for about 10.3 to 11.1 MHz)

Sensitivity: .5  $\mu$ v SSB, about 1.5  $\mu$ v AM for 10 dB s+s/n  
RF attenuation switch: Cuts back strong signals overloading.

Bandspread: Visual readings to closer than 5 KHz are easy.

Crystal calibrator: Enables operator to 'zero-in' on dial reference spots with ease.

BFO: Sensitive! Copy CW, SSB. Discover weak stations quickly.  
Tuning meter: A really useful meter with 0-10 reference marks.

Can easily compare to regular S-meter marks.  
Current consumption: 4.5 VDC, 50 mA with earphone (1/4 watt)  
Bass & Treble controls: Render the audio characteristics however you prefer, crisp or mellow.

Selectivity: My guess is 4 KHz at 6 dB and about 12 KHz at 60 dB  
External receptacles: 4.5 VDC, optional timer control, tape recorder, FM MPX out, earphone.

External Antenna/Ground terminals.

Push-button dial light: For night use. Normally off. Saves power..

Lever-release antenna: Built-in whip for all-around service.

Dual-conversion: Two IF system (10.7 MHz and 455 KHz) virtually eliminates harmonic images on SW.



The SONY ICF-5900W is a good-looking portable, but don't let the portability scare you off. This receiver performs, too. My usual test station in the evening is 4.68 MHz, R. Nacional Espejo, Ecuador, 5 KW. There it was, readable. The signal was not so good as one of the cadillac receivers, and not quite as good as the FRG-7, but then I was using only the built-in whip antenna. Batteries last and last.

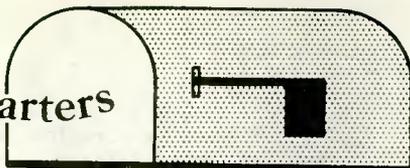
Advantages: Portability. Everything built-in from power to antenna. Frequency reading accuracy to better than 5 KHz. Stable BFO. Optional AM and FM for family entertainment.

Disadvantages: Selectivity separates stations 5 KHz, even better than the FRG-7, but still could be improved, and easily so. As is, there may be some few occasions where strong stations override weaker ones adjacent to them. The efficient bandspread method requires practice to get the knack, but once learned is precise.

General recommendation: Buy it if you absolutely cannot afford the FRG-7. This one is easily superior to the DX-160, and we like it.

# QSO/NASWA

letters to headquarters



EDWARD C. SHAW, QSO EDITOR  
P.O. BOX 7053  
LEXINGTON, KENTUCKY 40502

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MILITARY SURPLUS BALUNS, available for \$4.95 from Fair Radio Sales, Lima, OH (1976 catalog, p. 15). Inexpensive and weather-proof housed 200 or 725 to 70 ohms balun (balanced-to-unbalanced) transformer may be useful for those building balanced antennas of High-Z impedance, but feeding it to the receiver Low-Z input. Units are 10" long, 10" wide, and 5" deep, weighs 17 lbs. Has lightning spark-gap built-in, requiring heavy ground lead if used. This monster may have up to 6dB gain loss points, but those points are not specified. At \$4.95, at least it's a conversation piece for your shack. Thanx to Phil Schnabel in Saskatchewan.

## MORE COMMENTS OUT OF CONTEXT:

- Mary DeRoy, Berwick, Maine: "...one of the best presents I have ever given to (Roger - son), as he always looks forward to receiving his FRENDX."
- Bob Zilmer, Milwaukee: "December FRENDX very interesting, and set apart from other club publications."
- Mike Richardson, Glens Falls, N.Y. "NASWA brought me from a beginner to better-than-average, and don't know what I'd do without it."
- T.L. West, Madera, CA: "I gave my Dad an SX-190 for his birthday. He enjoys it so much. Sign him up, too."
- Gib S. Junqua, Osaka, Japan: "I find that it would indeed be very difficult to survive in the shortwave hobby without my monthly FRENDX to aid and comfort me."
- Robert Hayes, Hillsdale, Michigan: "I recently read FRENDX borrowed from your member Marlin Field. Here's my membership fee. Receivers are a Drake SW4A and Hallicrafters SX-43 which works."
- Toshimichi Ohtake, Norristown, PA: "I'm impressed with the depth and volume of SW news in FRENDX. I appreciate your efforts. As former executive of Japanese SW Club (JSMC) myself, I know the job."

DIGITAL FREQ. READOUT FOR YOUR RECEIVER: The February issue of Popular Electronics magazine will have an article on adding digital readout to certain receivers. (Shel Dunham, Richmond)

RED OAK KIDS RIDE AGAIN! Messrs. Ferguson, Jamison, and Shaw (all formerly of Red Oak Mountain notoriety) regrouped again at Dan Jamison's five-acre snake ranch south of Columbus the weekend of 17-19 December to try some mid-Ohio DXing. A fine visit! Dan Ferguson finally logged Canada on an 800 foot Beveridge antenna.

WANTED: INFO ON MILITARY SURPLUS RX: Your QSO ed. continually receives questions about availability of surplus gear near the writer. Please drop me a card if you should learn where military surplus gear is to be found, and price being asked. Thanks.

NEW ENGLISH BROADCAST LISTING IN THE MAKING: Stand by! A new-type of listing will soon be available cross-referring Country and Time, and also listing frequencies. This is bound to be a WINNER! No further information can be made available now, but the work will be many pages, therefore a nominal fee will be required.

BEST WISHES FOR A HAPPY NEW YEAR, AND HOPE 1977 WILL BE YOUR DX YEAR!

DAVE POWELL, Swansea, West Glamorgan U.K.: Thanks for an entertaining Loudenboomer publication, and trust that it continues to enjoy the success it deserves.

R. R. STAMM, Aurora, ILL.: Would like to hear from SPR-4 owners who have used and compared various antennas and tuners covering reception of the short wave bands. 606 Jackson St., Aurora, IL 60505

PHILIPPINE HISTORICAL RADIO SOCIETY: Our organization is looking for any kind of information on early broadcasting in the Philippine Islands prior to 1950. If you run across old QSL cards and/or letters from pre-1950 Philippine stations, we certainly would appreciate hearing from you and having xerox copies. All info to: James T. Pogue, Co-Director of the society, P.O. Box 972, Lafayette, IN 47902.

SOME USEFUL ADDRESSES: Receiver manufacturers

R. L. DRAKE Company, 540 Richard St., Miamisburg, OH 45342  
 HALLICRAFTERS Division, Wilcox Electric, Inc. 1400 Chestnut Street,  
 Kansas City, KS 64127  
 COLLINS Radio Company, P.O. Box 520, Dallas, Texas 75207  
 LAFAYETTE RADIO ELECTRONICS, 111 Jericho Tpk, Syosset, NY 11791  
 NATIONAL RADIO Company, 111 Washington St, Melrose, MASS 02176  
 PANASONIC /MATSUSHITA, 200 Park Avenue, New York, NY 10017  
 RADIO SHACK, Tandy Corp., 2617 W. 7th St, Fort Worth, TX 76107  
 SONY Corporation, 9 West 57th St., New York, NY 10019  
 SWAN ELECTRONICS, 305 Airport Road, Oceanside, CA 92054  
 VAESU-MUSEN, USA, 7625 E. Rosecrans Ave., #29, Paramount, CA 90723  
 ZENITH RADIO Corp., 1900 N. Austin Ave., Chicago, IL 60639  
 TRIO/KENWOOD, 116 E. Alondra, Gardena, CA 90248

PARDON MY ERROR. Many of you have written to ask for copies of the FRC-7 review I mentioned a month ago. Actually, the reviews were written by Edward J. Insinger and Al Sizer, and I erroneously said the former was by Edward Pyatt. Apologies. It comes from hearing from both gents on the same day and having too much on my mind.

SONY ICF-5900W. Hold everything! Late word to OSO/NASWA says that the SONY ICF-5900 portable is NOW on sale in the U.S.A. for prices around \$125.00. See past FRENDX mentions on this model. Frequency readouts to within easy 5 KHz, calibrator, dial light switch. But, has small gap around 10.7 MHz where the IF is located- not serious.

KENWOOD R-300. Sister radio to the Kenwood QR-666, but has optional drums with SWBC bandspread markings. Built-in calibrator, separate AF/RF gain controls, SSB, antenna trimmer, communications-type profile. Would you believe \$239.00? Suddenly, the U.S.A. is knee-deep in useful DX machines! Write for info from Kenwood address above.

POST OFFICE SELLS ENVELOPE SERVICE: For NASWA members who use a lot of envelopes, here's a good, but little-known deal for you. Your local post office has a form PS 3203 enabling you to order a box of 500 envelopes with your return name, address, and business slogan, AND with postage already affixed...all for a cost less than you would pay for the same thing elsewhere. You get envelopes, postage, and printing service. Ask about it- you might think it is a good deal.

HELPING HAND: DX-160 two years old in mint condition with Heathkit Crystal Calibrator \$110 plus shipping. R. C. Milam 17711 Pebblewood Lane, Hazel Crest, Illinois 60429.

EXCERPTS FROM THE ANARC NEWSLETTER  
- Dave Browne -  
Office of the Executive Secretary  
557 North Madison Avenue  
Pasadena, California 91101 - U.S.A.

As a participating member of the Association of North American Radio Clubs (ANARC), NASWA feels obliged to keep its members informed with news about other clubs and situations with ANARC. The following are excerpts of interest. ANARC Newsletter is available to individuals for \$2.50/year. Please contact the Executive Secretary of ANARC, Dave Browne, at the address above.

OUTLETS FOR FRG-7 SALES: GILFER Associates, Box 239, Park Ridge, N.J. 07656  
CAM GUARD SUPPLIES HAM RADIO OUTLET, 13754 Victory Blvd., 1777 Elice Ave. Van Nuys, CA 91401  
Winnipeg, Manitoba, CANADA VE Sales, Jack Reed, 3768 Bathurst St., Downsview, Ontario

R. L. DRAKE CO (SPR-4 and SSR-1 and R4C) opens a regional office in Las Vegas, NV 89102. Phone: (702) 382-9470. Ask for William L. Gaible. This is for sales and service west of the Rockies. (Tnx to Ralph Sanserino/SPEEDX via ANARC News)

NATIONAL RADIO CLUB (NRC) AM DX club publishing DX News, will move their HQC to Louisville, KY. in April 1977. Watch for address later.

WORLDWIDE TV-FM DX ASSN (WTV-FMDXA) is moving its HQC to Whiting, Indiana 46394 effective January 1977.

UNIVERSITY OF MANITOBA DX CLUB (UMDXC) sponsored by the U. of Manitoba, offers a taped course of instruction on "Basic Spanish" for DXers". Professionally produced. Write Barry Wayslik, U. of M. Winnipeg, MNTA., R3T 2N2. Include a large #10 envelope and 1 IRC or 10c coin. Essential for advanced/ aspiring advanced DXers.

ENGLISH IN INTERNATIONAL B'CASTING: NASWA's own Dr. Richard Wood Associate Professor of Languages and Linguistics, Adelphi Univ., Garden City, NY 11530 has an outstanding research article on the above subject published in the November 1976 issue of "English Around The World;" Those interested may send Dr. Wood a SASF (Self-addressed and stamped envelope).

ANARC FREQUENCY RECOMMENDATION COMMITTEE can always use experienced volunteers in helping to sort out the congestion on the SWBC bands. Please write Richard Varron, Chairman, 55 Eleron Place, Wayne, N.J. 07470, and include a SASE.

LIST OF ANARC AFFILIATED CLUBS: Available from address above for return postage and envelope.

DXER OF THE YEAR 1977 - NO. AMERICA & INTERNATIONAL. It's time to start nominations for the 1977 DXER of the Year. Club members are invited to write ANARC Exey Secy at the above address, or to your club representatives for nominating someone who you think deserves to be recognized. Along with the name, support your choice with a paragraph or two of why you are nominating that person. NASWA Reps are: Mac Leonhardt, Ed Shaw, and Gerry Dexter. Anyone of these can be reached at his home address in the NASWA address book, or through NASWA HQ address.

ADVANCE CONVENTION NOISES: Don't look now, but it's back to the great city of Columbus, Ohio for next summer's N-U Convention IV. As always, N-U will invite non-NU DXers from NASWA and other clubs to join in. Keep your options open for August 1977. More later.

ENGLISH!

When here?

"By NASWA!, We've done it again!"

C. LOUDENBOOMER  
DEC. '76

NOW AVAILABLE!! An exclusive offer to readers of FRENDX and the short wave listening community....English-language broadcasts heard in North America. Know WHAT frequency, and WHEN to tune MOST countries.

Prepared by Dan Ferguson, former FRENDX editor and Executive Editor of NASWA, this listing should be the single-most useful reference work for beginner and experienced DXers alike. A companion to your DXing According To NASWA handbook.

15-pages of a new, innovative listing of countries, stations and their frequencies in columnized fashion, cross-referenced to show at-a-glance when to listen in G.M.T. Now you can see immediately what is available at any given moment you decide!

It costs us to manufacture this neat package, and to help us defray the expense, we ask for \$1.00. This pays for cost of production and postage expenses. Get yours now; the first run of 100 is not expected to last very long!

SEND \$1.00 (cash or check) to: The one you have waited for!  
(U.S. \$)

DAN C. FERGUSON  
P.O. BOX 8452  
SO. CHARLESTON, WV.  
25303 U.S.A.

This is the list!

Order Now!

HELPING HAND: Wanted. Mosley SWV-7 vertical antenna in good condition or unused (will pay accordingly); also need Mosley TRS transformer-balun. Write stating asking price; shipping cost to San Francisco. Contact HM2 Mike Hardester, USN, NAVREGMEDCEN, Box 2723, APO San Francisco 96331.

HELPING HAND: Wanted. Manual, schematic diagram or any other information regarding Knight R100A general coverage receiver. Contact Bob Hill, 139A Fifth Avenue, San Francisco, CA 94118, or call 415/752-4164.

HELPING HAND: For sale. Two (2) R-390/UUR receivers (not R-390A's), excellent condition, aligned, etc., \$300.00 each plus shipping. Also, one (1) BC-221 frequency meter in good condition. Make offer. Contact Forester Isen, 493 Shade Woods Park, Louisville, KY 40219.

HELPING HAND: For sale. Regency TMR-8 Low Band Scanner, with 37.10, 42.40, 42.58 & 47.62 crystals in it. Squelch control needs a little work, all else is perfect. 110 AC plug also mobile power plug included. Asking \$60. Richard D. Swanson, P.O. BOX 749, Wellman, IA

HELPING HAND: For Sale. Nat'l Semiconductor Electronic Slide Rule calculator (Mathematician #4510) 6 months old, complete with battery, A/C adapter, case, manual. Has trig & inverse function plus memory etc. SASE for complete capability. \$30 value for \$18. Shipping & insurance prepaid, Ed Ricchezza, 201 S. 18th St. - Apt. 1215, Philadelphia, PA 19103.

HELPING HAND: For Sale. Drake SPR4. One year old, mint condition, with basic crystals, price \$500 or best offer, a good deal for a Canadian DXer (shipping paid in Canada), contact, Ciro Guarducci, PO BOX 173, Cassiar, BC, VOC 1EO CANADA - phone - 604-778-7345.

NOTICE: Handler Enterprises has a new address, PO BOX CC, Northfield, IL 60093.

LAST MINUTE TIP: Radio Difusora Nacional Nicaragua- YNM has reactivated after a 4 year absence due to the earthquake in 1972. It has been heard testing with a potent signal between 2300-0330 with classical music and news with many ID's on 5920., this has been heard on 12/29 -12/31 by Scott Newman, Lincolnwood, IL and Kl Mayer.

# Listeners NOTEBOOK



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

**THANKS** -- to all who sent greeting cards. Instead of trying to greet every LN correspondent individually, I present all with this month's column, typed mainly on 24-25/12 (gh)

**PROPER CREDIT** Other clubs and broadcasters may use material from LN provided due credit is rendered to the original reporter and NASWA. BBC Monitoring Service items are copyright and may not be further reproduced without permission. Items from NU are only those authorized by the editors. GMT dates, days and times throughout.

**GRABBAG** ALASKA (Horrors, a MW item) The only US MW station with an international service must be KJNP, 1170 kHz, North Pole (a suburb of Fairbanks), which has a daily Swedish program at 1000-1100, including 10 min of gospel mx from Göteborg. Hundreds of DX reports have been received from Sweden, over the pole. Russian has already used and I wonder if KJNP is licensed as an international broadcaster (gh, data fr. Tunér, DXJB).  
ALGERIA RTVA Spanish 2300-2400 on 9780, not announced 9610 (Richard Wood, NY 22/11)  
ANDORRA A friend in Wales says World Music Radio advertised in November apologizing for being off the air, and he hasn't been able to hear them (Andy Robins, MI) Broadcasts began 28/8; after one month they closed down due to bad reception of the 3.5 kW xtr on 6230 in the peak area of NE1. 95% of the reports were from DXers x/comms. rx's (Paul Foged DS4CI11)  
ANTIGUA BBC-9765 was this site to SA1 1-18/10 only. On 19/10 they swapped with Ascension for 6055 (Roger Legge, Via Arthur Cushen via HCJB 27/11) 2200-0415; change your records! (gh)  
BANGLADESH RE, ES monitored 0515-0545 Arab to WE 21685/17888/15410. 1340-1530 Pushtu/Urdu/Punjabi on 15268/11887 (BEG'S 18/11) Freqs vary a lot; see English section (gh)  
BOLIVIA Currently (12/12) heard are 2494 R. Alfonso Padilla Vega, 0200: 4424 R Paititi 2300 on: 4602.8 R Mamoré, often 2300-0030; 4568 LV del Yucama (Yucama? gh) once at 0215: 4977 R Riberalta daily 2230-0330v\*: 4738 R Abaroa 2300-0430 some days; 4776 tent R Los Indes 0330v\*: 4796 R Nueva América C120 in QRM: 5005 Universo often 2330 (Pitt M. Neil) (C)  
4138 P. Em. Comarapa, fixed sked 2230-0300; 4279 R. Juan Veintitrés back 15/11 after two weeks off, jumping back and forth from 4979 to 4977 for 1000-1630 (Tony Jones, Pgy, NU 5/12)  
 BRAZIL Str on 4115 is R. Difusora, Cruzeiro do Sul, Acre, SLED (Jan Tunér, DX Juke Box 12/10) FBIS list 4815: a sta amid snip SSB 4114-4115 19/12 off around 0300; way out west (gh)  
Rdif. Paraná is on 4815, QRP to 500 watts from listed 10 kW, financial problems (Sérgio Dória Partamian, São Paulo, SCDX 23/11) The former goldrush town of Cuiabá not only is in the geologic center of SA, but per local legend the 7th daughter in every Cuiabá family is able to turn into a witch on Friday nights if she applies a special ointment to her armpits. Might be a good time to try 5015 kHz (Jim Whitehead, MA, Dec SPEEDX) I apologize for "armpits" (gh)  
BYELORUSSIAN SSR R Minsk hrd 2130-2200 on 7420 in White Russian (Legge, 8/12)  
 CAMBODIA One DXer in Japan reported Democratic Cambodian Radio on 11935 in August at 1200-1500, and testing 15225 0200-0240, 17705 0250-0310 4/7. No trace mid-Oct (Ugusa, FEDXR)  
 CANADA A French Canadian hrd days on 2620 and 4/12 past 2300, presumably harmonic of CHGB, Ste. Anne de la Pocatière, but no positive ID yet (C.M. Stanbury, ON, SWNS HQ)  
 CHINA Zhejiang (ex-Chekiang) PBS uses new 4785 local morn and eve, not Yunnan, which now operates: Program I on 2460/4759 at 2150-0600, 0920-1620. Program II is in two nets, one on 6937 at 2225-0130, ?, 1055-1605; the other on 2310/5960 at 2225-0030, ?, 1125-1430. Among the languages used in Program II (I is Chinese) are Lahu, Xishuangbanna Thai, Nujiang Lisu, Jingpo, Dehong Thai (Hiroyuki Nagase, FE DX Review, 25/10) Khmer pgm on new 6538v // 9900/9440 // 12080/11695 at 1200; same minus 12080 9900 at 1400 (Mike Willis, Victoria, 6/12)  
 COLOMBIA (cf Dec LN-6) R Habana Cuba news heard relayed on Todelar net via R Colosal 4945, 26/10 0032-0037 (Bill Breeden, MS) Next we know, RHC will be listing long strings of relayers like VOA and BBC do in their Spanish newscasts, a sign of great status (gh)  
 COSTA RICA R. Reloj heard on strange fq of 2623, 0800 // 4832, but sounding like a rebroadcast; a puzzle (Arthur Cushen, DX Party Line 18/12) Smacks of harmonic; no fund. known (gh)  
 CUBA RHC's yearly essay contest, for which five winners will spend three weeks in Cuba, all expenses paid, including 26/7/77, closes 30/4. Works on the theme "Why are internationalism and solidarity the revolutionary answer to imperialist aggression?" must have been published or broadcast. Write RHC for entry blanks, as you strive for the proper frame of mind (gh)  
 CHILE The buzzing noise on or near 7175/7240/7280/7390/9450/9650 2200-0400 is jamming of R Moscow SA service; seems to come from SA, presumably Chile (Legge, 28/11, TDN) ex-beeps.  
 WINTER ISLAND Anmts on CB114 mention a R. Manchena (sp?) relaying its news on the hour. It signs on at dusk, freq unknown (RAE DX 23/12) One'd've expected Galápagos to be on MW..(gh)

**GERMANY WEST** Many listeners ask why we do not issue a schedule stating the frequency as well as the location of the respective transmitter. We like to be able to switch over our frequencies from one transmitter to another at short notice. Therefore, these specifications in our schedule would easily be out of date (DW Hochfrequenz 773 form letter to Walcutt, IL) Well, D76 sites for English at least appear in WRTVH Newsletter (gh)

**GHANA** For technical reasons, regular external service transmissions from Radio Ghana on all frequencies, except 6130 kHz, have been suspended until further notice (A P.S. to RG's D76 and sent to Royce G. Cramton, IL, and Michael A. Bolitho, ON, 6/12) Hmmm, I had been missin them in 13m scans across 21545, 21719, ever since 11/11 (gh) //11705 sked 0900-1500 (RADX2612)

**GUAM KTRW** equipment tests during the winter season will be on 9505/11705/15160/17830 (Legge)

**GUATEMALA** Correct callsigns for R.Cultural are TGNA-5955, TGNE-9505, TGNC-3300 (Martin K. Alintuck, Natick MA) Tho known in general as "TGNA", like "4VEH" (gh)

**IRAN** Per 1030 23/11 anmt, DS on HF: 15315 Persian Gulf; \*0630 on 15084 to Eu/Am; 0700-1700 on 17730/9022 Am/Naf; 1930- on 7215 Iraq & Syria (BECMS 2/12)

**IRAQ** R Baghdad DS in Arabic on new freqs: since 9/11 on 21600 //11785; since 16/11 on 11725 at 1100-1930; and 11700 //11725 0228-2320 (BECMS 18/11, 25/11, 2/12)

**ITALY** (Of Nov LN-5) Re the status of the Vatican Radio site at Santa Maria di Galeria: I feel you are reading too literally the words of Msgr Zannoni. What it all boils down to is that Sta. Maria, Castel Gondolfo and other places are very much part of the Vatican State -- they are not part of the Vatican City State. Ultimately the same status was granted to the radio installation as to the Pope's summer residence at Castel Gondolfo. Msgr Zannoni was merely establishing that those 'lands' were geographically within Italy, but de jure, arising from the Lateran Facts of 1929 et al., they were part of the Vatican for all purposes of sovereignty (Alan Thompson, Neath, UK) OK, but can anyone cite any reference giving the area of the Vatican State sufficiently larger than the City to include Santa Maria?? (gh) **VATICAN**

**JAPAN** Actual powers and calls of the NHK SW relays:

3259 0.3 JKS20 Sendai	6005 0.6 JKP21 Fukuoka	9535 0.6 JKG22 Hiroshima
3377 0.3 JKM20 Osaka	6005 0.3 JKD21 Nagoya	9535 0.6 JKQ22 Kumamoto
3607 0.3 JKG20 Hiroshima	6130 0.6 JKQ21 Kumamoto	9535 0.6 JKU22 Sapporo
3970 0.3 JKD20 Nagoya	6175 0.9 JKI21 Tokyo	9535 0.3 JKM22 Osaka
3970 0.6 JKO20 Matsuyama	6175 0.6 JKG21 Hiroshima	9535 0.3 JKS22 Sendai
3970 0.6 JKU20 Sapporo	6190 0.3 JKM21 Osaka	9550 0.9 JKI22 Tokyo
6005 0.6 JKO21 Matsuyama	6190 0.3 JKS21 Sendai	(T. Akabayashi, WRTVH Newsletter)

**JORDAN** R. Jordan non-English SW sked: 100-kw omni Arabic on 7155 0330-0730, 1900-2300; 9530 at 0930-1400. 7 1/2 kW on 7155 at 1430-1730; 5 kW to Naf on 11810 0330-2300 (Tom Overcamp SG)

**KOREA NORTH** Pyongyang on new 6770 at 1400 in French; blocking ontime Laos freq (Willis 6/12)

**LESOTHO** RL heard on 4927 //899 0430-2030, badly modulated (Gerry Wood, R. RSA 5/11) erratic

**LIBERIA** VOA doing out-of-band thing again, this time on 12050, Port. 11/12 1759 (gh)

**MONGOLIA** RUB back on 4950 FS in StdCh, Mong 1300-1500, but with completely different IS from one in WRTH, played on the vibes; mixes Malaysia-Kuching; mostly talk, times vary, first noted 23/11 (Gib Junqua, Japan) RUB no longer heard 1300-1500 with FS on 7262/7237/5960/4948 so seems off air, but HS 15/11 on 4762/5054/4080 (Mike Willis, Victoria, 6/12)

**MOZAMBIQUE** "A" Pgm now on 4972 ex 4855 (Colin Miller, SAF, via Gerry Wood, 5/11)

**NIGER** ORTN, "La Voix du Sahel" sked Net I: 3260 0530-0630, 1700-2200 (Sat 1630-2300, Sun 1630-2200); 7155 1130-1400 (Sat 1130-1630, Sun 0630-1630); 6060 1130-1400 (Sat/Sun 0630-1630)

Net II: 5020 0530-0630, 1700-2200 (Sat 1630-2300, Sun 1630-2200); 2575/9705 1130-1400 (Sat 1130-1630, Sun 0630-1630). Net III: 6060/7155 0630-1130 (WRTVHNL 11/76 via David Snyder NY)

**NIGERIA** W.N.B.S., Ibadan has been renamed Broadcasting Corporation of Oyo State, or **Radio O-Y-O** (corrected letterhead to Sam Barto, CT, 17/11) See Program News section (gh)

**PAKISTAN** RP HS hrd on 5009 at 0030, 5060 at 0215 (BBC World Radio Club 22/12)

**PHILIPPINES** Two Roman Catholic radio stations were closed last month for allegedly sending messages to communist guerrillas in the southern Philippines (SBC news item 6/12 1319) One was a Maryknoll station at Tagum (Philippine News Agency via Bernard Wideman, Washington Post 21/11, via Overcamp, SG) I guess the other one wasn't Veritas, still reported (gh) On 5/9 FEBC dedicated its 27th station, a 100,000 watt Russian transmitter at Iba, Zamboales, operating 4 1/2 hours to Central Siberia. A photo shows it captioned on 9505/11855/11920/9715/11890 and also in German. "Today in Russia, God is only a click away!" (FEBC via Overcamp)

A curious sect, apparently believing that God is a Gates transmitter. cargo cultish (gh)

**PORTUGAL** Lisbon noted 4865.4, reactivated 8/12 only 40 over 9, 2120-2405 HS pgm. This was on in 4/76 with FS pgms per DSWCI DXers in Eu. Azores has been off since June (Pitt McNeil, DC) But Jaar says this is Ponta Delgada, not Lisbon, in mid-December DX Hotline; why not? He reports it at same date and time (gh) RDP on 16/11 announced that from 18/11 ES 0400-0600 would also be on 6185; and Sat/Sun 0815-1700 on 11800. Heard //9740/6025 (BECMS 25/11) RDP 6185 in SSB Port at 2000, not //AM on 6025 (Richard Wood, NY, 15/12) On new 11800, seems ex-15295 Port to.0100\* //11840 30/11 (Wood)

**RWANDA** RRR QSL gives sked: W. 0300-0600, 0900-1200, 1330-2100; Sat 0300-0600, 0900-2100; Sun 0300-2100 omni antennas on 3330, 5 kW, and 6055, 50 kW. Sked varies slightly from WRTH 76; langs are Kinyarwanda, Kiswahili, French, English (Andy Rwoobins, MI, 9/12)

**SAUDI ARABIA** BSKSA Riyadh D76 FS: azimuths 15115 105 13-1350 Ind 11960 275 17-20 Quran 21525 200 16-1650 Swa 17765 75 14-1450 Urd 53 15-1550 Per 11905 35 15-1550 Per 17775 100 13-1350 Ind 15370 80 14-17 Quran 85 14-1450 Urd concluded on next page

(SAUDI ARABIA) 11855 233 05-07 Fre, 16-1650 Swa, 17-19 Fre 9685 320 17-18 Tur. Separately scheduled is the Common Program (Arabic) from Riyadh, D76:  
 21555 295 10-15 11870 235 08 $\frac{1}{2}$ -14 9670 03-05 $\frac{1}{2}$  ND 7235 235 05-08 $\frac{1}{2}$  6085 295 05-08 $\frac{1}{2}$   
 17875 295 07-10 9730 295 03-07 10-23 7220 as 9720 6000 as 7220  
 11950 ND 03-07 $\frac{1}{2}$  19-23 9580 295 08 $\frac{1}{2}$ -16 7110 235 20-23 (all via Roger Legge:  
 10-23 9720 as 11950 11820 295 15-19 6130 295 16-23 gh rearranged)

SPAIN RTVE D76 non-English: Spanish, Arabic, arganda, noblejas, not Sunday, \*Sunday \*0830-  
 6085a 2300-0300 S C/SSAm 9505a 1730-1930 S At1Eu 9630n 0100-0500 S NAm  
 6120n 0100-0500 S C/NAm 9520n 2145-0300 S C/SSAm 11730n 0800-1200 S Au/Phil  
 6140a 1100-2130 S Eu \* 9530n 0800-1200 S Au/Phil 11775n 2145-0500 S SAm/CAm/Mex  
 7105n 1100-2130 S Eu \* 9570a 1100-2130 S Eu 11785a 1730-2130 S At1Af  
 7195n 1730-1830 A NE \$ 9600n 1730-1830 A NE \$ 11920n 1100-2130 S Eu \*  
 1830-1930 S NE \$ 1830-1930 S NE \$ 11945n 2145-0300 S CAm/SSAm  
 1930-2030 A NE \$ 1930-2030 A NE \$ 11965n 2145-0010 S CAm/NAm  
 2030-2130 S Af/ME 2030-2130 S Af/ME 15440n 0800-1200 S Au/Phil  
 9360n 2300-0500 S S/CAm/Mex 9630n 2145-0010 S CAm (via W. Noël Brown, MI)

SUDAN In his/monthly nationwide "Face the Nation" 15/11 Pres. Numayri directed the Minister of Culture and Info to change immediately the name of the "National Unity Broadcasting Service" to "The Voice of the Sudanese Nation". IDs on 16/11 were, however, "The Broadcasting Service of the Democratic Republic of Sudan" (BBCMS 18/11) R Omdurman sked in Arabic: \*0400 on 11835/7200/6150/5038; Fri 0800-1000 last two separate for Holy Qur'an Service: by 1320 they are off every day, but pick up at 1528-2100 for Voice of the Sudanese Nation. 11835/7200 continue General Programme to 2200\* (BBCMS 11/76)

SWAZILAND Swazi Commercial Radio: (Gerry Wood, RSA, 5/11) 6155 0500-0945 (Mon-Sat)  
 2490 1700-2200 4980 0500-0945 (Mon-Sat) 1330-1530 (Mon-Fri)  
 3223 0400-0700 (Sun 0730) 1330-1530 (Mon-Fri) 1100-1530 (Sat)  
 1530-2200 1100-1530 (Sat) 0730-1530 (Sun)

Four THR-Manzini xmters are complexly scheduled in non-English Afroeurasian languages: D76  
 3240 0315-0345 4760 0400-0600 4790 Sun -1815 11955 1800-1902 17775 1445-1600  
 \$ 0345-0415 1600-1800 5950 0600-0750 Sun 1730-1800 1615-1645  
 3275 0330-0415 4790 1515-1650 9520 0400-0600 Sat 1730-1745 1915-2000  
 Mon 0400-0415 1700-1845 11955 0600-0750 15165 1500-1530 (via R Legge)

TAIWAN New Spanish from Taipei on new 21520 0400-0430, 0806-0840 to LAm, especially Nicaragua, from LV de China Libre; reception very good (Shun'ichi Sekiya, Sei'ichi Hasegawa, FEDXR 25/10) In Japan, but hardly in Nicaragua: is a new alliance developing? (gh)

THAILAND R. Thailand "overseas service" non-English announced as, on 11905, 9655; 0520-0550 French, 0915-1000 Laotian, 1000 Std Ch, 1030-1055 Thai, 1200-1230 Viet, 1230 Camb, 1300 Malay, 1400 Burmese -1430 (BBCMS 25/11)

TOGO R. Togo sked on 3222, 10 kW, 0530-0830, 1630-2230; 5042, 100 kW, 0830-2230; 7265 50/100 kW, 0800-1700 (WRTVH Newsletter 11/76 via David Snyder, The Brooklyn DX Club in all cases)

VENEZUELA Slogans continued from last month: R. Capital 4850 la primerísima; Rdif. V. 4890  
 La estación de la alegría; Ecos del Torbes 4980 su emisora predilecta; R. Occidente 3225/  
 9750 la tovarena; R. Maturín 5040 la emisora que manda; R. Sucesos 9700 la primerísima

(from questionnaires returned for the 1976 WRTVH, compiled by Tor-Henrik Ekblom, Sweden)

VIETNAM (Gf Dec LN-5) VOV added a new StdCh pgn at 1500-1600 on 12035/10040/9840/7572/4860.

Hanoi Pgm-I HS 2055-1630 on 10060/7375/6450/4932, and on 3998 at 2200-0058, 1045-1430, Pgm II at 2245-1600 on 10225/9987/7415/6430, and on 4995 at 2245-0100, 0930-1430 (BBCMS 10/76)

## CLANDESTINE CRANNY

"Bizim Radio" for Turkey has now two early morning  
 BCS, 0500-0550 on 9585; 0600-0630 or 9500 (BBCMS 2/12)

R. Chubut, LU2Ø, 580 kHz, has a special program for the Malvinas (Falklands) Mon-Fri at 0040-0100 (RAE DX 20/12) They probably mean GMT Tue-Sat (gh)

Voice of the Alliance Forces from Al-Qatn (active?), operated by the Central Committee of the Southern Yemen National Front, is sked in Arabic on 6634 kHz at 1600-1930. Voice of Oman ("Sawt al-Uman"), of the Popular Front for the Liberation of Oman, on 6478 (varies 6460 to 6485) not hxc but sked 1445-1615 in Arabic, and via Aden 1615-1650 Arabic, 1650-1700 Persian on 7190/11770; 7190 RFE-covered; I believe audible behind BBC 11770 (Carcl Fell, DSWCI)

HOBBY PIRATES There are lots of black xmters in the USSR, per a paper-article. E.g. Arkhangelsk, where dozens of pirates can be heard after HS close, with foreign mx and anti-Soviet propaganda. In a 370,000-population city some 30 pirates have been noted, and in Donets, 974,000, no less than 125 pirates have been observed. Lack of electronic tracing equipments is said to make it possible for these stations to survive (Klaus Lechner, Austria, SCDX 23/11) I think this item misuses the term "black," which implies a major element of deception (C. M. Stanbury, ON, SWNS) On 4906.1 Sat 4/12 1905 past 2050, nautesting late 50s/early 60s pop mx, "Disco Dick on the DXers' Choice", trying to be DJ, announced 1610 and 1680, neither hrd; horrible modulation, neither AM nor SSB; guess Wash-Balto area, 5-20w, (Pitt McNeil, DC) Among 6.2-MHz band Euro pirates reported in DSWCI Oct and Nov: 6202 R Invicta (Jens Grueger); 6210/6220 Westside Radio, Dublin, 1030 (Averell Scott, UK) 6220 Titanic, London (Grueger); 6220 Voice of the Scottish Nation, 2150-2207\*(Stewart Fenwick, UK) 6235/6 Time Radio, Eindhoven, 6240 R. Snoopy, 6252 Sound of Sweden, 6253 Peanut Radio (Grueger), 6280 R Solent City International, Newark, England, 1155\*(Scott) Skeds, freqs, names, all vary widely. Most like to operate around local Sunday noon (gh)

## QUICK-REFERENCE LIST

COMPILED BY GLENN HAUSER

These are selected times and frequencies, believed best for NAM reception, or in some cases the only English broadcast from a given country, even if unlikely to be heard. A--unavoidable; B--regular; C--occasional; D--well-nigh impossible. These ratings are very rough, designed for central NAM in midwinter. The data are ever-changing, so check present, past and future B.I.E. subsections in the NASWA Listeners Notebook for updates and fuller schedules.

<u>AFGHANISTAN</u> R Kabul D 1130-1200 15195 C 1400-1430 4000 4775@	<u>CANADA</u> RCI/AFS A 1800-1830 17820 15325 1830-1859 9620 1900-1930 17820 15325 1930-1959 9635 2000-2030 17820 15325 2200-2230 9445 5925 2300-0100 5960 M-F(Sa) 0100-0127 9535 0200-0230 9605 5000 0300-0328 9605 5960 0400-0430 9655 5960	<u>ETHIOPIA</u> ETLF C 0400-0425 7210 C 0530-0610 11800 C 1810-1825 9705 B 1945-2030 11955 R Ethiopia D 1500-1530 9605v	<u>ITALY</u> RAI C 0100-0120 6010 9575
<u>ALBANIA</u> R Tirana 0000-0025 C9750v B7065 0130-0200) B7300 0230-0300) B6200 0330-0400)	2000-2030 17820 15325 2200-2230 9445 5925 2300-0100 5960 M-F(Sa) 0100-0127 9535 0200-0230 9605 5000 0300-0328 9605 5960 0400-0430 9655 5960	<u>FINLAND</u> R Finland C 1330-1400) 15110 C 1430-1500) 11755 D 0330-0400 6105	<u>IVORY COAST</u> RTVI B 1845-2000 11920 \$un
<u>ALGERIA</u> RTVA C 1900-2000 11910 7245	Northern Service 1130-1400 B9625 B6065 1400-2400 A11720 A9625 0000-0607 C9625 C6065	<u>FRANCE</u> RFI C 1704-1756 15425 11930 11705	<u>JAPAN</u> R Japan C 2345-2445 11800 9525 C 0130-0230 17825 15420 15195 11840 B 0800-0815. 0900-0915 B 1000-1030 5990 C 1430-1430 5990 B 2200-2215) 15105 B 2300-2330)
<u>ANGOLA</u> R Nacional D 1145-1200 9535	<u>ANTARCTICA</u> AFAN D 0800-1200 6012 7215@	<u>GERMANY EAST</u> RBI D 0100-0145) 9730 D 0230-0315) 6080 C 0330-0415 5955 6080	<u>JORDAN</u> BSHKJ C 1500-1730 9560
<u>ARGENTINA</u> RAE A 2300-2350 11710 M-F B 0300-0400 9690 Tu-Sa C 0600-0700 9690 Tu-Sa	<u>CHINA</u> R Peking B 0000-0100 9940 11675 11945 B 0100-0200) 7120 9780 B 0300-0400) Tirana C 1200-1300 9470	<u>GERMANY WEST</u> DW A 0130-0150 6010 6040 A 0530-0550 5960 6185	<u>KENYA</u> VOK D -2010 4804
<u>AUSTRALIA</u> R Australia B 1100-1300 9580 C 0100-0300 15320 17795 (Fri -0240)	<u>CONGO</u> RTVC 2100-2130 B 15190	<u>GHANA</u> R Ghana C 0600-0800 6130 C 2000-2300 6130	<u>KOREA NORTH</u> R Pyongyang C 1000-1050 7203 9768 C 1200-1350 9520 12580 C 1800-2000 9977 C 2300-2400 11535 15630
<u>AUSTRIA</u> ORF 0130-0200) C 9770 0330-0400) D 6155 0430-0500 C 6015	<u>COOK ISLANDS</u> RCI 0700-0830 D 5045	<u>GREECE</u> EPT C 1215-1230 15345 17830 C 1515-1530 plus 11730 C 0015-0030) 11730 C 0215-0230) 9760 9750	<u>KOREA SOUTH</u> R Korea C 0300-0330 11860 0630-0630 9730 1600-1630 9580 1800-1830 9525
<u>BANGLADESH</u> R Bangladesh D 1230-1300 15268v 11888v C 1815-1915 11940 15180	<u>COSTA RICA</u> R Casino C 0445-0600 5954v	<u>GUINEA</u> EPT C 1215-1230 15345 17830 C 1515-1530 plus 11730 C 0015-0030) 11730 C 0215-0230) 9760 9750	<u>KUWAIT</u> R Kuwait C 1700-2000 9555 9580 11845
<u>BELGIUM</u> BRN4 C 0015-0045 6080 9725@	<u>CUBA</u> RHC A 2010-2140 17885 2050-2150 17750 11865 0100-0450 9685 0100-0600 11725 0330-0600 11760 0630-0800 9525	<u>GUINEA</u> EPT C 1215-1230 15345 17830 C 1515-1530 plus 11730 C 0015-0030) 11730 C 0215-0230) 9760 9750	<u>LAOS</u> LNR D 1330-1400 7145
<u>BELIZE</u> R Belize C -0510 3285	<u>CZECHOSLOVAKIA</u> R Prag C 0030-0100 6055 9740 B 0100-0200 5930 7345 B 0300-0400 5930 7345	<u>HAITI</u> 4VEH B 1100-1400 9770 11835 much later Sundays	<u>LIBERIA</u> ELWA C 0600/2300 4770 C 0630/0800 11940/50 B 1915-1945) 11940/50 B 2015-2045)
<u>BHUTAN</u> NYAB D 1230-1330 Wed 7041	<u>CHILE</u> LV de Chile 9566@ B 0930-0950 11810 B 1050-1110 11810 B 1210-1220 11810 C 1330-1350 11810 B 2030-2050 15150 B 2250-2310 15150 B 0110-0130 15150 C 0210-0230 15150	<u>HONDURAS</u> HRVC B 0300-0500 4820	<u>LUXEMBOURG</u> R Luxemburg C 0000-0245 6090
<u>BOLIVIA</u> Cruz del Sur C 0130-0200 Mon 4875	<u>DOMINICAN REPUBLIC</u> R Clarin (if active) 2330-2400 4850 11700	<u>HUNGARY</u> R Budapest C \$0200-0230 5000 7215 C 0300-0330 6000 7215	<u>MALAGASY</u> R Madagascar C 1500-1600 17730 on?
<u>BOTSWANA</u> R Botswana C 0400- 4845	<u>EGYPT</u> R Cairo 0200-0330 9475@	<u>INDIA</u> AIR C 2245-0115 11770 9525 1330-1500 11810 1745-2230 9525 11620	<u>MALAYSIA</u> VOM C 0625-0855 15275v
<u>BRAZIL</u> RNB 15245@ B 2100-2200 11780	<u>ECUADOR</u> HCJB A 1230-1630 11745 15115 1630-1800 15310 17780 1900-2030 15310 0040-0700 6095 9560 11915	<u>INDONESIA</u> VOI C 1100-1200 11789 C 1400-1500 11789	<u>MALDIVES</u> R Maldives D 1500-1730 4740
<u>BRUNEI</u> R Brunei C 1200-1430 7215	<u>IRAN</u> R Tehran C 2000-2030 9022	<u>IRAQ</u> R Baghdad C 1930-2030 9750v	<u>MALTA</u> Xandir Malta C 2045-2115 6080 Sat
<u>BULGARIA</u> R Sofia C 0000-0100 9705 B 0430-0500 7115 B 1930-2000 9700	<u>ISRAEL</u> IBA B 2000-2030 7412½ A 2230-2300 7412½ 5900 A 0500-0515 7412½ 5900	<u>IRAN</u> R Tehran C 2000-2030 9022	<u>MONACO</u> TWR 0725-0900 B 7105
<u>BURMA</u> BBS C 1415-1600 5039 5985	<u>ISRAEL</u> IBA B 2000-2030 7412½ A 2230-2300 7412½ 5900 A 0500-0515 7412½ 5900	<u>IRAN</u> R Tehran C 2000-2030 9022	<u>MONGOLIA</u> RUB \$unday D 1220-1250 5960 6383 D 1715-1745 11858 9574
<u>CAMEROON</u> R Yaounde C 0530-0600 4972.5 D 1830- 5010 Garoua	<u>EGYPT</u> R Cairo 0200-0330 9475@	<u>IRAN</u> R Tehran C 2000-2030 9022	<u>NEPAL</u> R Nepal D 1435-1520 3425 5007 7105
<u>CANADA</u> CFRX 24h B6070 G10100		<u>IRAN</u> R Tehran C 2000-2030 9022	

@ -- alternate freq.

<b>NETHERLANDS</b> R Nederland 0630-0750 A 9630 0800-0920 B 9715 2000-2120 B 11730 0200-0320 A 6165 0500-0620 A 6165 9715	<b>PHILIPPINES</b> R Veritas C 1000-0200 11870 15280 C 1400-1500 9645 11780 RP 1400-1600 C 9580v	<b>SOUTH AFRICA</b> R RSA C 1500-1630 21535 B 2100-2150 11900 9585 A 2230-2320 11900 9585 B 0300-0425 5980 9585	<b>TOGO</b> R Togo D 1950- 5047 6155 <b>UGANDA</b> UBC C 1800-1830 15325 TRSS C 2030-2100 9730 SMWF
<b>NETH. ANTILLES</b> TWR 1105-1225 A 11815 1230-1400 A 15255 S/3 0030-0130 B 11925	<b>POLAND</b> R Warsaw D 0200-0230) 7270 D 0300-0330)	<b>SPAIN</b> RTVE net \$unday C 2030-2230 6100 9505 B 0100-0400 6065 11880	<b>UNITED KINGDOM</b> BBCWS B 0600-1130 11860 A 1100-1330 5990 6195 B 1330-1500 15070 A 1500-1615 17840 A 1600-1830 9580 E 1600-1709 15365 A 1800-2030 11815 A 2000-0315 15260 A 2300-0330 9580 9510 A 2300-0730 6175
<b>NEW ZEALAND</b> RNZ C 2000-0430 15130 C 0100-0600 11705 C 0440-0715 9540 B 0610-1030 11780 B 0730-1030 6165	<b>PORTUGAL</b> R Portugal B 1400-1430 17895 \$ C 1800-1830 15340 17880 B 0230-0300 6025 11935 B 0500-0530 6625 11935	<b>SRI LANKA</b> SLEB C 1900-2000 9720 11800 C 0030-0430 9720 15425 C 1230-1730 9720 15425	
<b>NIGERIA</b> VON B 0645-0835 7275	<b>ROMANIA</b> R Bucharest B 1300-1330 9690 B 2100-2130 5990 C 0130-0230 5990 9570 C 0400-0430 5990 9570	<b>SUDAN</b> V Sudanese Natn D 1630-1645 5038 6150	<b>USA</b> AFRIS-Wash. A/B 6030 2200-1130(1200) 6095 0530-1600 (1730) 9700 0330-1630 (2115) 9755 0600-1300 11795 (1730-2130) 11805 0200-0520 15330 1230-0300 (0400) 15430 (12)1515-23(24) 17765 2130-0200 (0300)
<b>NORWAY</b> R Norway Sun B 1600-1630 15175 C 1800-1830 11895 C 2200-2230 9645 C 0300-0330 6180 Mon C 0200-0230 9550 C 0400-0430 9645 C 0600-0630 6180 9645	<b>SARAWAK</b> R Malaysia B 1100-1230) C 1400-1600) 4950	<b>SWEDEN</b> R Sweden B 1230-1300 15305 B 1400-1430 15305 C 2100-2130 6065 B 2300-2330 6120 C 0030-0100 6045 C 0230-0300 6045	<b>USSR</b> R Moscow A/B/C 2230-0400 A5940 B6125 B7115 B7205 B7355 C 7440 B15455-B15140 2300-0300 B7105 0030-0430 C9780 0330-0730 9735 9580 7175 7130 6185 6150 6070 6030 9635 6020
<b>OMAN</b> R Muscat D 0900-1100 11890	<b>SAUDI ARABIA</b> BSKSA C 1000-1200 11855 C 1900-2200 11855	<b>SWITZERLAND</b> SBC B 1315-1345 15140 B 0145-0215 5965 6135 B 0430-0500 6045 9725	
<b>PAKISTAN</b> R Pakistan C 1630-1645 9460 11675 C 2115-2145 6210v C 0000-0010 9460 11750	<b>SEYCHELLES</b> PEBA C 1245-1400 11870 C 1535-1650 11845 C 1550-1650 9645 C 0330-0415 9665	<b>SYRIA</b> R Damascus D 2030-2200 9545	<b>TAHITI</b> R Tahiti \$ B 1500-1910 11825 15170
<b>PAPUA NEW GUINEA</b> NEC B 0700 9520 B 1300 4890	<b>SIERRA LEONE</b> SLEB C 0600-0730 3315	<b>TAIWAN</b> VOFC C 0100-0200 15425 17890 C 2130-2230 15225	<b>THAILAND</b> R Thailand D 0415-0515 9655 11905 C 1055-1155 9655 11905 D 2330-0155 9655 11905
<b>PERU</b> R del Pacifico C 0200-0300 4975	<b>SINGAPORE</b> R Singapore C 2230- 11940 B 1630 5010 5052	<b>TURKEY</b> V of Turkey C 2200-0030 9515 11880	<b>YUGOSLAVIA</b> R Belgrade C 2200-2215 9620
<b>PHILIPPINES</b> FEBC C 0100-0600 15390 B 0800-1000 11920 C 1100-1130 7225 11890 C 1400-1630 11920	<b>SOLOMON ISLANDS</b> SIIBS C 0600-1130 5020		

**ALBANIA** R Tirana to Nam 0000-0025 on 9744, drift from 9750 or avoiding Athens (Wood, NY 22/11)

**ANTIGUA** (Cf Dec LN-7) 6175 still seems Canada till 0430, often skipped out or weak; then BBC Antigua in like ton of bricks. DW announcer mispronounces the island's name (Wood, 22/11)

DW must have taken hints on previous mispronunciation; is now using standard English form in -ga/ (Richard E. Wood, 8/12) Irate natives or reading DX reports? (gh)

**AUSTRALIA** RA on new loud unsked 9575 1500-1600 // 9540 etc. Unk target site, but could serve as effective ENAm service at least in winter (Wood 8/12) As I keep bugging them to do but this not hrd hze until 25/12, and before 1500, poor (gh) Rest of RA's 076 sked:  
 0030-0100 17860/15240/15140/11965/11790. 0100-0130 17860/15320/15240/15160/15140/11965/11790. 0300-0400 17860/15140/15355/15320/15240/15160/15140/11965/11790. 0400-0500 17860/15410C/15355/15320/15240/15160/15140/11845/15290/11740. 0500-0600 17860/15410C/15355/15240/15140/11740. 0600-0630 17860/15410C/15355/15320/15290/15160/11845/11740. 0630-0700 17860/15410C/15355/15320/15240/15140/11740. 0700-0800 17860/15410C/15355/11790/11740/9760/9570/9515/5995. 0800-0830 17860/15410C/15355/15190/11790/11740/11705/9760/9570/9515/6045/5995. 0830-0900 17860/15410C/15355/15190/11790/11740/11705/9760/9570/6045/5995. 0900-0930 17860/15410C/15190/11740/11705/6045/5995. 0930-1000 17860/15410C/15190/11705/6045/5995. 1000-1100 11790/11705/9540/6045/5995. 1100-1300 11740/11705/9760/9540/7240/6045/5995. 1300-1400 11705/9540/7240/6045/5995. 1400-1500 11705/9760/9540/7240/6045/5995. 1500-1730 11705/9760/9540/7240/6045/6005C/5995. 1730-1800 6045/5995. 1800-1900 11810/9580/9540/7220/6045/5995. 1900-2000 11810/11725/9580/9540/7220/6045/5995. 2000-2100 11810/11725/9600/9580. 2100-2200 15160/11810/11725/11790/9600/9580/9535/6035C. 2200-2230 15160/11790/11725/9535/6035C. 2230-2300 15160/11965/11790/11725/9535. 2300-2330 15240/15160/15140/11965/11790/11725/9535. 2330-2400 15240/15160/15140/11965/11790/9535. 0000-0030 15240/15140/11965/11790. C-Garnarvon 250kW (WRTVHNL rearranged by gh)

(MORE ENGLISH) BANGLADESH (QRL credit to Bob Padula, via WRTVHNL) on 11905 18/9 1230-1300, (Alex Wellner & Michael Wallin, NSW) wide variation, don't assume Thailand (gh)

BELGIUM BRT4 to 6085 ex-9725 0015-0045 and Spanish 2245-2315 QRMing R Nederland from 2230 IS (John Wegener, IL, 11/12) Also noted on 6085 23/11; by 10/12 shifted to 6080 (Bob Zilmer, WI, SPEEDXGRAM) Also noted here on 6080; finally wised up on 9725 impenetrability (gh)

BRAZIL QRL credit to Richard Wood, gh. 11780 will be OK if BBC and WFRF will keep off (gh)

BULGARIA R. Sofia surprise move from 9700, of over 20 years' standing, to 9705 0000-0100, presumably to avoid DW 9700 (Wood, NY) Now Mexico. Resked 2nd xmsn to 0430 on new 7115, same xmttr that carries R. Moscow earlier in evening. Quite an improvement (gh)

BURMA's first DX club, the DW DX Listeners Club is offering a special QSL for reception of BBS on 4, 15, 16, 17 Jan at 1430-1600 on 5985. Send 4 IRCs to Mr. Thane Win, 191 50th St., East Rangoon PO, Rangoon. (SCDX 21/12 via gh) Surprised RBI didn't beat DW to Burma (gh)

CANADA CFRB, previously heard on 10th harmonic 10100, also audible on 9th, 2090 // 6070, at 1908 11/12. Not found, however, on 8080, 7070 or 6060, shucks (gh) CHINA 9470 QRL (Wood)

DOMINICAN REPUBLIC R Clarin's 11700 xmttr as of 10/12 not hrd for approx. 10 days. Prior to that, had had frequent technical problems (SWNS) Nor found on 4850, almost daily December checks for 2330 critically acclaimed English program. Easy come, easy go (gh)

EGYPT RC Nam see 9475 0200-0345 some nites horrendous overmodulation, others normal (Wood, NY, 8/12) Disgusting; extended from 0330 now?? (gh) ETHIOPIA ETLF in QRL (WRTVHNL, Snyder)

FRANCE Complete D76 RFI "Paris Calling Africa" projected freqs 1700-1800, 500kW on all except 41m to NAF 7165/7285. Waf 9585/11930. Caf 9695/11890/15425; Eaf 9505/11705 (WRTVHNL)

INDIA AIR drifting to 6142 from 6145 at 1530 // 7195/7225/10335 (Mike Willis, Vic. 6/12)

JORDAN R Jordan also has 7 1/2 kW to Eur at 1000-1300 on 7155, and a 100 kW Commercial (directional) service at 1800-1830 on 9560. (Also QRL credit to Tom Overcamp, SC) KOREA N (FEDXR)

LATVIAN SSR R. Riga 0100 28/11 with IS, ID, news, cmtry on 15100 (Bill Miller, CA) SPEEDXGRAM) Another report of a non-Vilnius during its sked. Is this to be believed? (gh)

LUXEMBOURG QRL (WRTVHNL) MONGOLIA RUB is meant to run 1220-1252 on 5960/5383 or 15440/17785; definitely not on latter, but not hrd on former either, maybe poor reception (Willis)

MOZAMBIQUE R Moz has moved from 11819 to 11830 for the English pgm at 1800 (BBCWG 8/12)

NIGERIA Do you know anything about Nigeria on 4890? 19/12 0600 very powerful signal with book review, religious service /Enugu 6025; was this NBC Enugu? (Russell Scotka, OH) 4900?

PAKISTAN RP, Karachi announces 6210, but heard on 6210, 6205, 6206, fully English 2115-2145\* with very good level daily (Bob Butterfield, MA, 10/12) Noted from 10/12, presumably ex-6235, usual pops, one "Here Comes Suzy Snowflake" (Pitt McNeil, DC) RP on 5030 26/8 1737 tlk on Palestine, seems settled here, wonder how audience finds out about all these changes (Barend Hendriksen, BDXC) D76 sked to 2145 on 6115 7085 (Arthur Cushen, DXJB 3/12)

PHILIPPINES FEBC in QRL (Richard Wood; WRTVHNL) R Veritas (Toru Nakanishi, SCDX 21/12)

POLAND (CF Dec LN-7) PR's 0200, 0300 to NAM is only on 6095/6135/7270/9675/11815/15120. Only 7270 audible this time of year, but very poor, and RSA covers from 0300 (Roger Legge, 8/12)

PORTUGAL QRL sked (Bill Davenport, TN) RUMANIA RB announces and is heard on 11940/11830/15250/17835 at 0645-0715 (Mike Willis, Hampton, Victoria, Australia, 6/12)

SEYCHELLES FIBA 11845 begins IS at 1530, opens BBC Radio Newsreel relay at 1535; 9645 begins IS at 1545, becomes // at 1550--both five mins 'off', probably to avoid QRMing Vatican Radio which uses 11845 1500-1530 to same SAs target. Nice instance of cooperation (Junqua, 10/12)

SOUTH AFRICA Nam R RSA see is on 5980 not 4875. The M77 (March 6-April 30) sked to Nam remains unchanged, i.e. 2226-2320 on 5980/9585/11800/11900 (Richard E. Wood, NY, 15/12)

SPAIN QRL sked via (W. Noel Brown, MI) SWAZILAND QRL sked via (Legge, VA) 11)

SWEDEN To EAs at 1230-1300 were last week adjusted from 9745 to 9750 to avoid QRM (SCDX 30/)

TAIWAN VOFC in QRL (gh; Bob Hill, CA. TDXN) Complete new schedule needed (gh) THAILAND BBCMS

TOGO QRL (WRTVH NL via Snyder) USA The Voice of the OAS's English, Portuguese and French pgms have been discontinued. (David Crawford, DSWCI 11/76) Leaving Spanish, on freqs more or less swapped with VOA Eng to LAm. They slip away if we don't watch out! (gh) WINB sked 1700-1830 on 15375, 1830-2000 on 15355, 2000-2200 on 11775 to WEa/Med/NAF (WRTVHNL) Maybe, but I'm not getting a peep out of them (gh) \*1700 on 15355, and past 1900, then in Russian (Joseph Tangredi, New Orleans LA, SCDX 14/12) This month's US MW harmonics: on 4710, WTLK, Taylorsville NC, 1600 18/8, previously hrd on 3140, both originating from 1570. 3080, WBNL Boonville IN, 250-w daytime 1320 18/12. Also very strange unID on 3080 eves to 0518v\* with movie soundtracks(?) 2520, KWHK, Hutchinson KS, basketball 0400 11/12, 2 x 1260, (gh)

USSR Sites for freqs when used in R. Moscow's Nam svc: 5940 Nikolayev, 6070 Sofia, 6125 Nikolayev, 7105 Sofia, 7115 Flovdiv, 7205 & 7355 Simferopol', 7440 Novosibirsk (Legge, UHN)

VIETNAM VOV has 15-min English lessons in HS Pgm-I at 2130, 0630; Pgm II 2300, 1415. Freqs given on page LN-3 (BBCMS 10/76)

## FUTURE PLANS

AUSTRALIA A complete overhaul of 'broadcasting standards', including Radio Australia operation, is recommended in a report of a parliamentary committee of enquiry. It says Australia's broadcasters lack an overall strategic policy and a system of accountability. One major recommendation for RA is that it should operate within the guidelines set by the Dept. of Foreign Affairs in consultation with the Dept. of Overseas Trade (BBCMS 18/11) Make way for the QANTAS ads (gh)

BRAZIL New 1 kW stns are projected, unless 1/4 indicated: 2310 1/4 Santos AC, 2380 1/4 Caxias MA, 2420 MT, 2420 1/4 MG, 2430 Glória de Dourados MT, 2460 Iguaçu PR, 2480 Rondonópolis MT, 2490 AM, 2490 AC, 2490 Santos SP 1/4, 3215 Rio Verde MT (Sérgio Dória Partemian, SP. RAE DX 25/12)

(MORE FUTURE PLANS) LESOTHO Two 50 kW xmters are due to be installed here soon (Zdenek Křeněk, Czechoslovakia, HCJB 28/11)

NIGERIA G. O. Akano, engineer at Calabar advises that one of the 3 new xmters to be used in the external svc of R. Nigeria will be beamed to the Americas. NEC is embarking on a development project under which new broadcasting houses and transmitting stations are being erected in each of the 19 states of Nigeria. (John Tuchscherer, WI. NU 27/11)

SWITZERLAND How the children of William Tell will live in the year 2000 is covered in an SEC series in French on the first Saturday of the month, "Les Suisses de l'an 2000". At 0800, 1415, 1630, following Sun 0000, 0315, 0600, usual freqs (SSR sked via Bill Hauser, OK)

## PUBLICATIONS

USSR HIGH FREQUENCY BROADCAST NEWSLETTER is a new publication by Roger Legge, Box 232, McLean VA 22101. It specializes in up-to-date schedules of Radio Moscow and other stations, and gives both officially registered and believed actual transmitter sites. The first issue, dated Nov 76, includes an SSR-by-SSR rundown of when and where to tune in each, on one of its four pages. Sample for 13¢ stamp or one IRC: subscription price to be established when the amount of interest is known. (gh)

The Melbourne Age GREEN GUIDE, published every third Thursday (e.g. 11/11) includes a DX column by the Australian Radio DX Club, with the most up-to-date info available (Rob Wagner)

International Broadcast Institute, a.k.a. International Communications Institute, publishes a magazine bimonthly, Intermedia, and many specialized academic things, such as case studies on broadcasting systems of various countries. Membership is \$25, by invitation only, but presumably publications are sold to outsiders; ask for list to IBI, Tavistock House East, Tavistock Square, London WC1H 9LG. Among the trustees are Miguel Alemán of Mexico, Klaus von Bismarck, GFR; Neville D. Jayaweera, Sri Lanka; Umar Kayam, Indonesia; Elmer Lower and Sig Mickelson, USA, and Laurent Picard, Canada. (via M. Kert Sidel, TN)

LISTEN TO THE WORLD ON SHORTWAVE RADIO--Ask Me! is a red and white bumper sticker printed by Larry Fox, 38 Emerson Place, Valley Stream NY (via Bruce Lavery, GA)

ENGLISH LANGUAGE DX PROGRAMS OF THE WORLD is available for 30¢ from the Brooklyn DX Club at 1137 E 12th St., Brooklyn NY 11230; also How to Pick a Band, 35¢; English Language Broadcasts of the World, 55¢, and the monthly bulletin "ELB", 50¢. Meetings 16/1, 20/2 20/3 (Snyder)

INDONESIA COCKTAIL is a C60 cassette with one hour of typical Indo programming, recorded in Indonesia, or provided by stations, including commercial Mws. 12 IRCs to the SW Club of Central Westfalia, c/o Jürgen Lohuis, Deutschesstr. 70 D-46 Dortmund 16, GFR (DSWCI Oct)

DX PUBLICATIONS OF THE WORLD, 2nd edn, offset, describes about 600 of them: 4 IRCs, surface, or 5 IRCs by air from EDXC, P O Box 250325, D-4630 Bochum, GFR (DSWCI Nov)

ENGLISH IN INTERNATIONAL BROADCASTING, by Richard E. Wood, surveys the use of this language, and includes a table of hours per day per country/station. In the 11/76 issue of "English Around the World" of the English-Speaking Union of the US, 16 E 69th St., NY NY 10021 (REW)

CONGESTION IN THE SHORTWAVE BANDS, by Jim Vastenhouck, looks at the problem, including a 4/6/76 occupancy chart of the 11 MHz band, the power race, and solutions. In the 11/76 Wireless World, which also has an article on "Advanced Radio Monitoring" with computers (Foxworth NY)

FIGHTING W/BSAW, 1968 Minerva Press paperback by Stefan Korbonski. This war history may interest radio people in its first-hand accounts of operating a clandestine broadcaster in an enemy-occupied city. The author made occasional SWBCs over a 300w xmt: heard in London, they provided material for the UK's Polish broadcast, which could reach the whole country.

THE SECRET WAR REPORT OF THE O.S.S., 1976 Berkley Medallion pb, has info of interest to broadcast historians--14 pages near the back outline the principles of 'black propaganda' and discuss the WWII stations "Soldatensender West" and "Sender Calais". A few pages up front discuss the evolution of the SSTR-1 'suitcase radio', a self-contained camouflaged 2-12 MHz spy transceiver, which sometimes shows up on the ham radio market here and in England.

Der Spiegel, 29/3/76 has an interesting espionage story...a DDR agent in the FR would drive to a forested, quiet area, park his car, and switch the multiband car radio over to SW. He then would take down a series of numbers from E Germany. He would decode and reply. In this way projects were assigned, commands and congratulations were sent. (last 3; Hugh Miller; WA)

## DON'T YOU BELIEVE...

...that LN has the finest print. The 11/76 log report in Australian DX News was reduced almost to invisibility, with 10 typewritten letters per horizontal centimeter! ...that Dominican Republic is in S. America, as on BECWRC 25/11; ...that Sinhala is a Radio Veritas transmitter site, as the 21/12 French SCDX anc: guessed: It's the language of Sri Lanka...that our DXH editor is the announcer on RNB (gh) ...that Guinea-Bissau is active despite FRENDX listings. It's been off since mid-to-late June and nobody seems to notice this (Pitt McNeil, DC)

...that IBA doesn't relay the "A" HS net (Dec LN-6). Two of the three frequencies carrying the "B" net switch over to "A" at 1800-1830 for Ladino and Mograbit--7375 & 9355, unlike 7460 (Magne, PA, 12/12) ...that electricity limitations in Spain, even blackouts, will affect RTVE. Fdo. Javier Mostaza tells me RTVE transmissions will continue as usual (W Noel Brown) ...that SEC's English sked is unexcelled: their current Arabic is a profusely illustrated 12-page on Swiss Expo. ...that DDR means anything in East Africa: in Swahili, it's "JKU" (gh) ...that day/month is the order everywhere but the U.S. Here in Japan it's year/month/day, and the year is 52 in the Showa Era (Gib Junjima) ...that FEDXR reporter Seichi Hosono is a real name, Dec LN-3. It could be a pseudonym for "number one in broadcasting", à la Número Uno, but I am not an expert on Japanese (Richard E. Wood, Adelphi University)

**PROGRAMS**

**BRAZIL** RNB's sked as given on the air: Mon: Realm of Brazilian Nature, Brazilian Sound, Literature Review. Tue: Travelling thru Brazil, Music Parade, It's a Fascinating Country. Wed: Just Ask and RNB Will Answer. Brazil Sings, Something to Think About. Thu: Music Request, Creative Arts. Fri: RNB DX, Musical Notes, "Sports Review. Sat: Special Pgm dedicated to a particular Brazilian State. Sun: Weekly News Review, Something to Think About, repeat of one of the week's pgms, Music Feature. Mon-Fri xmsns open with Brazilian Panorama--news and commentary (John Wegener, IL, 11/12)

**CANADA** The CBC Northern Service is jumbled every May and Nov. Highlights of the current sked: Mon-Fri 1713-1730 Northern Messenger--title remains but no longer pretending to send messages. GMT Tue 0104-0130 Territorial News Roundup; Wed, Yes You're Wrong--a light-hearted quiz show; Thu, Pulp & Paper--a satiric translation of popular magazines to audio format; Fri, Playhouse; Sat, Our Friends Are Flickers--a quiz show about the movies of yesterday and today followed by 90 mins of music to 0300, Tue rock, Wed folk, Thu top 40, Fri jazz, Sat country. Lotsa luck in getting decent NS reception at these hours! Tue-Sat 0420-0500 Nightcap--artists, writers, musicians, entrepreneurs; Tue-Sat 0510-0600 Allan McFee's wry mixture of musical idioms on Eclectic Circus. Sat 1710-1800 Quirks & Quarks, excellent science program. 2105-2200 Northern Showcase of drama, music, documentary. 2315-2400 Our Native Land. Sun: 0005-0100 CBC Stage; 0205-0300 Between Ourselves; 0310-0400 Anthology, 1405-1700 Sunday Morning--I enjoy this every week; 1705-1800 Gilmour's Albums--mostly great vocalists, 2105-2200 Ideas '77, 2210-2400 Cross-Country Checkup. (gh's selections from sked via Ian McFarland)

**ECUADOR** My gripe is WHCJB, a thoroughly American station purporting to be Ecuadorian. Their English newscasts are interchangeable with any US station. Their Spanish late nite 6050 kHz service is something else tho--you can hear some good Andean music sans the usual noise in listening to weaker stations (Hugh Miller, Seattle WA)

**EGYPT** I don't believe R Cairo is beaming Arabic by Radio our way, but check around 1355 at least Sats, on 17920 to SKMS (gh)

**GERMANY EAST** Does RBI read LN? Answering our prayers, the D76 Journal finally gives a "Program Structure" outline: Daily, News, Commentary. Mon Spotlight on Sport; Tue GDR Kaleidoscope; Thu The Land We Live In; Fri Newsreel of the Socialist World; Sun to NAM Weekend Magazine; to Eu/Af Round About the GDR. Also, monthly, International Mailbag Programme (gh)

**JORDAN** R. Jordan 9560 pgms at 1500-1530: Sat, Science Report; Sun, Comedy; Mon, Classical Showcases; Tue, Good Vibes; Wed, Thriller; Thu, Special Feature; Fri, Jordan Weekly. Daily 1530-1600 Pop Session, 1600 News, 1603-1700 Sat Varieties, Sun Listeners Choice. 1603-1630 Mon-Fri Pop Session; 1630-1700 Mon, Date with a Star; Tue, Special Feature; Wed, Science Report; Thu, Pop Music USA; Fri, Classical Showcases. Daily 1700 News Bulletin, and to 1730 music on Fri/Sat; News Reports and Newsreel Sun-Thu (Undated sked to Tom Overcamp, SC, 15/12)

**NETHERLANDS** "Progressive Rock" on RN Wed after news 0215, 0510 (GMT or NAM day? -gh) Prepared by two young men in RN news dept. The first of the series, featuring Velvet Underground, and playing some songs almost never heard on US progressive FM stations, indicated that the producers intend to live up to the series title: there's a typically European inclination toward 'showier' music of Roxy Music, Lou Reed, Hendrix (Hugh Miller, WA, 12/12)

**NIGERIA** Highlights of the Radio O-Y-O (ex WNBS) sked for Dec 76: Mon-Sat 0520-0530 Wounds Unlimited (probably misprint for Sounds -gr.), 0530-0540 National News. 0603-0610 Editorial Review, daily 0610-0615 Personal Announcements and 0700-0705 State News, 2000-2010 National News; News in English & Yoruba 2100-2105, 2200-2205, 2300-2305, 0955-0100. 2015-2045 Tue Our Cultural Heritage, Wed Voice of the People Fri Festival Music. Mon 2045-2100 Cop & Hr. Mon-Fri 2105-2200 gospel pgms; Sun-Fri 2205-2300 Yoruba Music; daily 2305-2400 Black Is Beautiful, 0010-0055 Dance Music of the Yorubas. Closes at 0105 daily (via Barto) 6050? gh

**SPAIN** RTVE's "Tourist Guide" 0120-0130/0220-0230/0320-0330 GMT Wed National Heritage, Thu Gastronomy, Fri Fiestas, Sat Geography, Sun Handicrafts & Folklore. "Spain Today" 0145-0155/0245-0255/0345-0355 GMT Tue The Industry, Wed Communications, Thu Commerce, Fri Research, Sat Technology. News Service Tue-Sun 0130-0145/0230-0245/0330-0345 (via Noel Brown, MI; 10/76)

**SWITZERLAND** SBC Spanish's feature on the first Sunday of each month (the following GMT Monday) is "Suiza a través de sus instrumentos musicales" 0100-0130 on 6135/9750/3625/11850; and 0215-0245 on 5965/6135/9725/11715 (gh)

**UKOGBANI** BGWS is auditioning six widely different comedy programs, during the first six weeks of 1977. Listener response will determine which ones get a full run on the WS. Each is aired thrice, Sun 1430, Mon 0230, Tue 1030. "The Sherlock Holmes Society" should be interesting, 19/1 at 1430, 20/1 at 0030, 21/1 at 2030 (gh) Beginning April 1977 "London Calling" will cost \$10 per year 'towards the cost of packing and postage' (apologetic notice accompanying hitherto free January ish, via Tom Overcamp, SC, Larry Nebron, CA, gh) It couldn't possibly cost them 83¢ an issue for packing and postage. (gh) The price is a bit steep. I would guess they are trying to kill off subscriptions (overcamp) Let's hope no worse action is taken. I hope other LN readers will comment (Nebron)

**USSR** Tho R. Moscows span to NAM is shorter, it seems they have added another half hour of non-duplicated programming, so instead of hearing it all in 90 mins we may listen for two hours straight at any time (except starting at 2230). Here's the cycling arrangement: 2230 A, 2300 B, 2330 MR, 0000 A, 0030 C, 0100 B, 0130 MR, 0200 A, 0230 C, 0300 B, 0330 MR. Pacific Coast Service: 0330 A, 0400 C, 0430 B, 0500 MR, 0530 A, 0600 C, 0630 B, 0700 MR (gh)

**VENEZUELA** All radio broadcasts must be cultural Tue-Fri 0100-0200, Sat 0000-0200 (Venezuelan Economic Review via Jim Whitehead, MA who adds:) not so heard, maybe not yet effective?

**DX PROGRAMS**

**AUSTRALIA** In response to suggestions from NAM listeners, who are unable to hear "Mailbag" in our winters due to previous scheduling, as of 26/12 the time was changed to Sun 1240-1255, breaking the strict 6-hour-repeat cycle adopted by RA last May. The NAM/As/Pac edition is also aired Sun 0140; and the British Isles/As/Pac edition continues Sat 1940, Sun 0740. Formerly there were three separate editions (RA Club Forum 25/12, which I had to listen to at 0840 --gh) This change is among the suggested solutions I sent RA already last August. Now to get DXers Calling and Club Forum itself rescheduled to a time when we can again hear them without strain, sleep loss (gh)

**AUSTRIA** ORF is inviting every SWL to a big contest, as from 1/1. Details in the German "Kurzwellen-Panorama" Sat 1330-1400 on 6155/9770, on the 1st and 3rd Sat broadcasts of the weekly pgm, with newcontest-tasks every month. There will be a number of prizes, and every contestant will receive a diploma. (SCDX 30/11)

**EBLGARIA** With resked of pgm to 0430, DX host is Sat 0445 on 7115. Formerly one of the most incestuous DX pgms, they have loosened up, even including DX tips on approved countries, as on 11/12 Vilnius sked (out of date), Bangladesh, Switzerland Saudi (claimed 11850), Greece. Iran, RBI--and plugged a 'propagation research contest' during December with grand prize of a trip to Bulgaria, of course (gh)

**ECUADOR** The newish 1700-1730 DX Party Line airing is heard on 15310, as is the oldish 2000-2030 despite frequency schedules, both Mon/Thu/Sat, the host Hatch claimed 1700 as Mon/Wed/Sat (gh) Al Hatch was considering changing the DXPL (lousy) theme music, around 1/1, per anmt 28/11 (John Wegener, IL) It wouldn't be the same without the Knightsbridge March from the English Suite by Eric Coates, as Clayton Howard unflinchingly informed us (gh) Clayton and Helen Howard will probably return to Quito by August or September of 1977 (DXPL 7/12 via Wegener) By which time Hatch may have learned a few things about DX, broadcasting and geography. He makes an incredible number of mistakes when he tries to read off DX items. .but he's sure giving it the old enthusiastic college try! (gh)

**GERMANY EAST** The DX Meeting finally appears in RBI Journal (Cf LN-8) as a fortnightly feature on Mondays (ergo GMT Tues in NAM, as applies to other items in the LN-8 entry) Ditto the German version, and for all I know, in every other RBI language (gh)

**NETHERLANDS** Beginning this month, RN adds a 10-min DX program in Portuguese, for beginners, every Thursday (DX Juke Box 23/12) during 2300-2335 15425; 2345-0020 9715, Bonaire (SCDX 7/12)

**NEW ZEALAND** Unlike last southern summer, RNZ's xmsn sked does not advance an hour earlier for DST, but the programs within it do, putting ArthurCushen's DX World first Suns at 0915, until presumed reversion to 1015 in March or April: (via Cushen, DXJB 3/12) Tony King's "Mailbox", third Suns at 0915 is a DX program too, he asserts, matching the even broader definition of "DX program" we are adopting, exemplified in the first item on this page (gh)

**PHILIPPINES** Radio Veritas had a DX program Sat 6/11 1440-1500 on 9550/9645/11780/15260, reported by Indian DXers (SGLX 14/12) Regularly scheduled now? (gh)

**SWEDEN** Our DX pgms in Russian move from Mns to Tues, beginning on the New Year (SCDX 30/11)

**SWITZERLAND** SBC does have a German DX pgm, called "DX Ecke", accompanying the mailbag pgm, but it's on the 2nd Sunday of each month, in xmsns at 0530 1230 1345 1600 2330. and following GMT Monday at 0245, 0530, on the usual freqs (gh)

**USA** Those who can formulate qualified comments on how ITS should handle its data, into a one-minute capsule may phone ITS at 303-499-8129 for it to be taped and studied (DW DX Dec) Hams who are National Radio Club members may be heard discussing MW DXing on a confab--not a net--Mondays at 0700 (during DST, 0600), on 3900 kHz. Among them are Skip Dabelstein, KØSEV, and Ross Hansch, W9BG. Non-hams are invited to listen in for late tips (DX News 20/12)

**INTRUDER WATCH**

**THE SOVIET PULSER** was still being heard 26/

12, but at least they have acknowledged it and made a promise to reduce it. (gh) Per Swedish telecomms. officials, the transmitter was at Gomel, with a power of two megawatts. The Norwegian paper Verdens Gang last week reported that the USSR was using a world-wide 'over the horizon' shortwave radar system for defense purposes, and this was behind radio disturbances over the past three months. (AFF 10/12 via Siz-er) OTH clutter appeared promptly 1300 between 17575 and 17700, closing 1330 just like clockwork. Looked at the pulses on panoramic display. 8-10 separate pulses are in a 50-kHz-wide block. which moves up in frequency about 4 times per second. This rate and the number of pulses in the block section vary according to the frequency in use. Have observed the OTH around 8 MHz with different pulse arrangement and rep rate. Tho the OTH pulses have distinct start and stop freq. (sharp leading and trailing edges), the shape of the pulses generate enough intermodulation products to cover frequencies out to 200 kHz on either side of the sweet band; thus the pulse 'sound' like they are covering more than they really are. (Perry Ferrell, NJ, NU 27/11) I think they may be 'randcm access' 'shotgun communication' carrying intelligence; if one frequency doesn't get through, another will. (Bob Thomann, SBC NY 27/11)

**Soviets Admit Radio Jam**

Los Angeles Times Dispatch

**STOCKHOLM** -- The Soviet Union has admitted that disruption of radio communications in northern Europe could be caused by Soviet radio experiments, it was learned here.

In reply to a note from the Swedish telecommunications directorate and the foreign ministry, Soviet authorities promised to take steps to reduce the disturbance.

**THEY GAVE** no details of the type of equipment that might be causing the interference, but Swedish officials believed it was a long-distance radar station near Kiev.

The Swedes had complained that a Soviet transmitter was disrupting air and sea communications and transmissions between Stockholm and Swedish embassies abroad.

IN MY OPINION

Gib Junqua, Japan: "One gripe I've got concerns reports on Asian stations with statements such as 'singing which sounded like someone calling the cows back home' or 'CHINA--really weird singing by deranged woman'. Such comments are completely uncalled for. Granted, Asian music is completely different from Occidental music, but such people should open their ears and their minds. If they were to do so they just might find a great deal of beauty in it. The whole point is, don't knock it if you don't understand it. Listen to Asian records and become attuned to it."

Mark Connelly, MA (in IRCA DX Monitor 11/12): "For many of us, radio extends our knowledge of other countries' cultures; medium wave is better than SW in this regard as programming is usually intended for a country's native populace rather than a foreign audience to which some political arguments must be sold. MW DXing is a hobby that is within reach of anyone, wherever an AM radio is found, not a 'cult' or 'elite group' like SW. Many people DX, even though they are unaware of the meaning of the term. Truckers listening to WSM or WWVA from Florida to Maine are DXers of a sort as are the many people calling WBZ talk shows from all over Canada and the USA." # gh: "Right on the value of domestic versus international programming. Wrong on assuming anyone can tune in foreign stations on MW."

name withheld, Uganda: "Thank the almighty God, I am free again after being detained since the Entebbe raid simply because of having a very long aerial on my house and many radio equipment in my house, thinking I was collaborating with the Israelis--a thing I have never done at all. I was released last week and am feeling very weak and sick with the frequent headaches and pain all over the body due to torture. I am very sorry to let you know that I have lost all my valuable radio equipment during my detention. I am now completely homeless I am staying with my sister here. Even all my household /are lost/. May almighty God keep us safe."

Stanley Leinwoll, NJ: "Of the many forms that bad journalism can take the worst, perhaps is the deliberate distortion of material by quoting out of context. The motive for this type of poor reporting generally an attempt at sensationalism by provocation. I found the statement attributed to me in Dec LN-2 personally offensive because it is quoted entirely out of context and presents a badly twisted version of what happened. Neither I, nor some of the other members of the International Broadcasting Service Group I queried have any recollection of my using those words. "Paper mill" is not standard Leinwollese either. I have always been even-handed about the IFRB, and my personal judgement is that Article X could not have worked as well as it has without the efforts and dedication of the IFRB. It has made outstanding contributions to international SW broadcasting and I shudder to think where broadcasting would be without it." # gh: "The quotation was an instant condensation from my notes. Here is what you actually said, transcribed from a tape of the meeting, which you authorized." Leinwoll: "At a frequency meeting in Geneva a couple of years ago two IFRB members sat in. It was an eye-opener for them. They had little or no awareness-- You know, it's a mill. It's a... bunch of clerks sitting around processing numbers, and it has no meaning to them. Watching broadcasters fight it out and seeing the problems and the needs that some of the broadcasters have made a difference for a while..."

Stuart Faulkner and Hugh Letheran, in "Advanced radio monitoring," Wireless World 11/76: "An operator searching through a mass of noise and unwanted signals covering a large frequency band in order to tune in possibly weak wanted signals faces a soul destroying, time consuming and very boring task. ...the existing pool of highly skilled operators has begun to dry up and it is proving difficult to find replacements. The classical method of monitoring is, after all, a very boring occupation."

Andy Robins, MI: "In Dec LN one writer opined that the SWL hobby should not be publicized so that the chosen few would not be 'plasticized' by the masses. This kind of elitist mentality is, unfortunately, all too prevalent in the hobby. SWL is supposed to widen your mind. This particular person is not atypical and doesn't deserve to be singled out for the public pillory, but the tendency toward elitism should be fought whenever it appears in the hobby. Perhaps our hobby should consider adopting measures to insure that it doesn't become a cozy club open by invitation only." # gh: "NASWA is as far as you can get from that."

DX CALENDARJanuary

18 Liberia: ELWA, 20 or 23  
20 Brazil: R de J Foundation D  
Mali: Army Day  
25 Bolivia: R El Condor, 39  
26 Australia Day  
India: Republic Day

26 Brazil: Santos holiday  
31 Brazil: R Diário da  
Manhã, 22  
Peru: R Nacional, 40

February

1 Colombia: R Nacional 37  
1 Guatemala: R Nacional, 40  
2 Guatemala: LV Quezaltenango  
40 years

4 Sri Lanka Independence, 29  
5 Mexico: Constitution Day  
6 New Zealand Day  
7 West Berlin: RIAS, 31  
10 Malta: St Paul's Shipwreck  
11 Japan: National Day  
14 Brazil: R Sirena, 17  
15 Austria: ORF SW, 22  
(Zalm. BDXC: Sunspot; adapted)

LAST MINUTE STUFF SEYCHELLES Among FEBA's D76 changes: 9725 ex-9545 Swahili 0315-0345; (John Mainland, NZ) 15280 ex-15160 English 0600-0800 (Padula, Australia) 6150 ex-6080 Indian langs 0100-0130 (Padula) 9510 ex-9665 Arabic 1800-1900 (Bob Hill, CA) 15200 ex-15180 Arabic 0415-0515 (Adrian Peterson, India) All quoted on R. Australia DX 26/12.

UK et al. BBCWS activated special freqs 25/12 0900-0945 to carry Queen's Message 0930-0935. 6175 was 15 sec ahead of 9520/11875 relays; 3952.5/6195/9410 direct; 11860 Asc (gh) 77 de Glenn

IBF, 5000, f/d card in 10 days. No rp. (Muick-PA).

JAPAN: R. Japan, 9505, card in 12 days. No rp. (Granone-NM): 15300, card w/o time, RJ News, questionnaire, sked, "How to Listen to Radio Japan", form for questions, antenna pamphlet, postcard in 13 days. No rp. (Scott-ONT); f/d card, sked, bulletin in 30 days. No rp. (Peterson-CT): 15105, card, sked, rpt form in 22 days. No rp. (Ward-NB): 11705, card, sked, rpt form, RJ News in 40 days. No rp. (Herkimer-NY).

NHK-Nagoya, 6005, R. Japan card w/o time in 4 1/2 weeks after f/up. It seems harder now to verify these HS freqs. (Cosier-AUST).

KIRGHIZ SSR: R. Moscow via Frunze, f/d "CMEA" card in 40 days. No rp. (Mayer-IL).

KOREA (S): KBS, 9640/11860, f/d color cards, skeds and 2 pennants in 259 and 131 days. No rp. (Watson-BC): 11860, card w/only date in 30 days for EE rpt. No rp. (Granone-NM).

LITHUANIAN SSR: R. Vilnius, 7165, f/d card and pennant in 3 months for 1 IRC. (Rockwood-OH).

R. Moscow via Kaunas, 7100, f/d "CMEA" card, rpt form and sked in 1 month. No rp. (Glazzy-CA).

LUXEMBOURG: R. Luxembourg, 6090, f/d "Antenna/Coat-of-Arms" card in 79 days for 1 IRC. (Camillo-NY); same in 84 days for 1 IRC. (Gadous-VT).

MALAGASY REP: R. Nederland Relay, 11730, f/d "Eddie Startz" card, sked in 17 days. (Alintuck-MA); f/d "Tom Meyer" card, sked in 15 days for 1 IRC. (Mooney-ONT): 11740, f/d "Harry van Gelder" card in 12 days. (George-TX).

MALAYSIA: BBC Relay, 15310, no-data card w/"BBC Far Eastern Relay Station" typed on it and sked in 21 days. No rp. (Petrov-ONT).

V. of Malaysia, 6100, card, sked in 4 weeks. (Padula-AUST).

MALI: Rdiff. Nationale du Mali, 4783, f/d card in 1 month. This is essentially the same card used several years ago by RTV Gabon. (Ronda-OH).

MALTA: IBRA, 6055, f/d map card and green/blue pennant in 230 days for EE rpt and 1 IRC. (Petrov-ONT); same in 15 days. No rp. (Mooney-ONT).

DW Relay, 6100, f/d "Circles" card in 20 days. No rp. Original card was no-data. It came back with full data after I returned it and asked them to stamp it! (Nebron-CA).

MANCHURIA: R. Peking via Hailaer, 3900, beautiful CC artwork card w/freq and date only in 3 weeks for EE rpt on rarely heard Mongolian FS relay. (Cosier-AUST).

MAURITANIA: Rdiff. Nationale Mauritania, 4845, map card in 3 1/2 months for FF rpt and 2 IRC's. (Cain-LA); card w/verie statement in 3 months for FF rpt and 1 IRC. (Bishop-PA); f/d map card in 50 days for FF rpt and 1 IRC. (Cosier-AUST).

MAURITIUS: MBC, 9710, nice MBC card w/o time in 27 days for EE rpt, 2 IRC's and used stamps. Card was not signed but a note written on the bottom said my report was correct and wished me "all the best". Sked per card: 0230-1300 on 9710: 1300-1830 on 4850: 0230-1830 on 683. (Moritz-OH).

MEXICO: XEQM, 6105, SS letter with verie statement and station info in 14 days for SS rpt and mint stamp. Letter gives xmtr power as 250 watts. V/s Sr. Mario E. Gonzalez Peraza. (Bishop-PA). Very nice, Gerry. ed.

R. Mexico, 15385, verie letter, sked, station and tourist info all in SS and EE questionnaire in 268 days for EE rpt. No rp. (Ihnat-PA).

MONACO: TWR, 7110, f/d map card with all TWR sites including Guam, sked and religious pamphlet in 2 months. No rp. (McNeil-DC): 7105, f/d map card in 31 days for 2 IRC's. (Luze-TX); f/d orange/white map card, sked, religious info in 18 days for 3 IRC's. (Ward-NB).

MONGOLIA: R. Ulan Bator, 11855 (HS), blue/white/gold card, sked and letter from Tuvdennyam, Head of EE section, in 18 weeks. Haven't seen too many QSLs for this freq. This outlet is somewhat rare here. (Padula-AUST). Here too!!

MOZAMBIQUE: R. Nacional, 4975-Maputo, map card in 5 weeks for this new freq. (Padula-AUST).

NETHERLANDS: R. Nederland, 11730, f/d "Harry van Gelder" card in 27 days. No rp. (Troster-ONT): 9715, f/d card in 57 days for 2 IRC's. (Norby-MN).

NETHERLANDS ANTILLES: R. Nederland Relay, 6165, f/d card, sked in 21 days. No rp. (Davenport-TN); f/d card in 18 days. No rp. (Nebron-CA).

TWR, 11925, f/d folder card in 45 days. No rp. (Granone-NM); f/d PJB card, 1977 calendar, station decal, religious info, sked in 18 days for 1 IRC and postcards. (Malone-MA).

NEW ZEALAND: RNZ, 11780, f/d card in 98 days for mint stamps. (Granone-NM): 11705, f/d card, pennant, sked in 56 days for 2 IRC's. (Rojewski-WA).

NIGERIA: NBC-Sokoto, 6195, f/d letter from Senior Engineer in 2 months. No rp but I sent the usual postcard and US stamps. (Ronda-OH).

V. of Nigeria, 7275, partial-data green/white card in 64 days for

EE rpt and postcard. No rp. (Watson-BC).

RTV Kaduna, 6090, f/d card in 41 days. No rp. (Herkimer-NY).

Western Nigeria Government Broadcasting Corp., 6050-Ibadan, letter in 4 months from A.A. John. The new official name and address for this station is: Broadcasting Corporation of Ayo State, P.M.B. 1, Agodi Post Office, Ibadan. (Barto-CT).

NORWAY: R. Norway, 15175, f/d card and sked in 42 days for 1 IRC. (Troster-ONT); f/d "Waterfall" card and flag in 32 days. No rp. (Meehan-CT).

OMAN: R. Oman, 11890, f/d "View of Muscat" card in 2½ months for EE rpt and Wildlife stamps. No rp. (McNeil-DC); f/d "View of Al-Kamil" card in 2 months for EE rpt and 2 IRC's. (Mitchell-IN).

PAKISTAN: R. Pakistan, 11672, f/d verie letter in 75 days for 2 IRC's.

V/s Nohmpod Ahmad. (Camillo-NY); verie letter in 64 days. No rp. Exact same thing came 3 weeks later. (Bishop-PA).

PAPUA NEW GUINEA: NBC, 4890, f/d map card in 25 days for EE rpt and 3 IRC's. (Quinn-NY); same in 28 days for 2 IRC's. (Alvi-SASK).

R. Southern Highlands, 3275, f/d letter from John Lyein Kepagne in 5 months for EE rpt and 1 IRC. Letter apologizes for no card, but says they are getting them soon. (McNeil-DC).

R. East Sepik, 3335, f/d letter and sked from Assistant Station Manager Albert E. Kain in 16 days for EE rpt, 2 IRC's, postcard and US stamps. (Ronda-OH).

R. East New Britain, 3385, f/d card w/map of P/NG on the back in 35 days for lostcard, US stamps and 2 IRC's. (Ronda-OH).

PARAGUAY: R. Nacional, 6025, no-data letter in 20 days by registered mail. (Muick-PA).

PERU: R. Atlantida, 4790, long SS letter thanking me for rpt and singing the praises of Iquitos in 40 days for postcards, US stamps and 1 IRC. (Ronda-OH); no-data personal SS letter and some used Peruvian stamps from Julio Reategui Burga in 87 days for mint stamps. (Herkimer-NY).

PHILIPPINES: R. Veritas, 9675, long "Station" card, sked, postcard and first issue of Newsletter in 3 months. V/s Margaret Cheng. Superb stamps on both sides of the envelope. Total of 23 stamps in all! (Padula-AUST).

POLAND: Polish Radio, 6090/6135/11815, f/d "Heraldic Arms" cards in 87 days for 1 IRC. Also received a very nice pennant, copy of mailbag prgm featuring me, letter from Lech Stanislawski asking me to monitor 9525 kHz, and a sked with no mention of 7270 kHz or 6185 kHz which they have been using. (Rockwood-OH); 15120, f/d card, sked in 83 days for 1 IRC. (Petrov-ONT); 11840, f/d card in about 1 year after f/up. Also received cassette, pennant and letter apologizing for delay. (Barker-TX); 6183, card in 6 weeks: 3955, card and letter from K. Cocman in 5 weeks. One of my better 75mb Europeans. This freq is heard only rarely in Australia. (Padula-AUST).

PORTUGAL: R. Nacional, 6025, card in 22 days for 1 IRC. (Norby-MN); f/d PP card and sked in 23 days for 1 IRC and postcards. (Malone-MA).

Radio Free Europe, 11815, blue/white "Bell" card w/date and meter band in 20 days for mint stamps. V/s L.M. Pease. (Mooney-ONT).

TO RADIO:

NOV 29 1976

Wir bestätigen Ihren  
Empfangsbericht vom: 5.10.1976

We are glad to confirm  
your report of:

Wir senden unsere Programme auf folgenden Frequenzen:  
Our transmitting stations are:

Mittelwelle	Medium wave AM:	550 kHz/kc = 530.0 m	100 kW
		1484 kHz/kc = 202.2 m	5 kW
Kurzwelle	6,19 MHz/Mc	50 kW ERP	
	(Länder Standort Bremen)	Hauptstrahlrichtung: SO 140°	
Ultrakurzwellen/VHF-FM:	69,75 MHz/Mc	60 kW ERP	
	92,4 MHz/Mc	60 kW ERP	
	90,3 MHz/Mc	60 kW ERP	
	98,2 MHz/Mc	8 kW ERP	

Fernsehen - Television:	Bild - Vision	169,25 MHz/Mc	100 kW ERP
Kanal 7 - Channel 7 (CCIR)	Ton - Sound	194,75 MHz/Mc	10 kW ERP
Kanal 39 - Channel 39 (CCIR)	Bild - Vision	617,25 MHz/Mc	200 kW ERP
	Ton - Sound	620,75 MHz/Mc	20 kW ERP

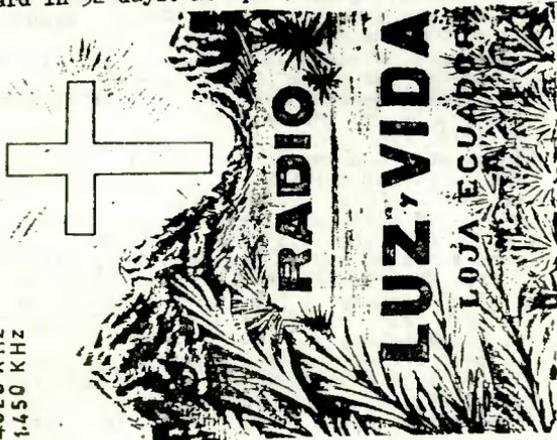


from  
RICHARD  
SCHWARTZ

BERLIN - WEST

RHODESIA: RBC, 3396, f/d card in 1 month. No rp. (Ronda-OH); card in 90 days for 2 IRC's. (Mitchell-IN); card w/o time in 28 days. No rp. (Gionet-NB) 2425, card in 18 weeks. No rp. (Cosier-AUST).  
 ROMANIA: R. Bucharest, 9570, f/d "Peles Castle" card, sked, pennant in 106 days. No rp. (Hoffman-PA): 9690, f/d card, sked, letter, pennant in 17 weeks. No rp. (Cain-LA): 5990/9570, f/d cards in 145 days. No rp. (Meehan-CT).  
 RWANDA: DW-Kigali, 11795, map card in 10 months. (Padula-AUST).  
 RYUKYU IS: VOA-Okinawa, 7165, "Stamps" card w/date, site and rubber stamp "Jacobs" signature in 50 days. No rp. (Watson-BC).  
 SARAWAK: R. Malaysia-Kuching, 4950, f/d card in 1 month after f/up. (Hoogerheide-KY): 4835, f/d "Broadcast House" card in 4½ months for EE rpt and 1 IRC. (McNeil-DC).  
 SAUDI ARABIA: BSKSA, 6130, f/d "Crossed Swords" card in 94 days for EE rpt on AA xmsn. No rp. (Gionet-NB).  
 SENEGAL: R. Senegal, 4890, f/d "African Cora" card in 2 months for 1 IRC, postcard and US stamps. (Ronda-OH); same f/d card in 5 weeks for FF rpt and 2 IRC's. (Mitchell-IN); verie w/o date in 5 weeks. No rp. (Bishop-PA); f/d "Banjo" card in 42 days for FF rpt and 1 IRC. (Gionet-NB).  
 SEYCHELLES: FEBA, 9545, f/d card, sked in 16 days for 3 IRC's. (Morrison-KY): 9510, f/d card in 21 days for EE rpt and 3 IRC's. (Conrad-IA).  
 SIERRA LEONE: SLBS, 3316, "Coat-of-Arms" card w/o date in 43 days for EE rpt and mint stamps. V/s Alpha Sesay. (Mooney-ONT).  
 SINGAPORE: R. Singapore, 5010, f/d card in 35 days for 1 IRC. This came a day before my 22nd Birthday! What a present! (Gower-IL): 5052, f/d card in 7 weeks for EE rpt and 2 IRC's. (Wootten-ITALY); f/d logo card and outdated sked in 61 days for EE rpt and 2 IRC's. (Glazzy-CA).  
 SOUTH AFRICA: R. RSA, 9585, f/d card in 71 days. No rp. (Granone-NM); card and "RSA Calling" in 10 days. (Swanson-IA); card, sked, mag in 28 days. No rp. (Peterson-CT); f/d card w/"First Day of Transkei Independence" on it per my request in 17 days. No rp. (Nebron-CA); f/d card, DX Club info, "Thank You" note, "RSA Calling" in 20 days for 1 IRC and postcards. (Malone-MA).  
 SABC, 3980, f/d card, pennant and sked in 21 days for EE rpt on Afrikaans xmsn. No rp. (Barker-TX).  
 ZUO, 5000, long f/d card in 3 months. No rp. (Muick-PA).  
 SPAIN: RTVE, 11880, f/d card in 4 months. No rp. (Norby-MN); f/d card, sked in 32 days. No rp. (Rojewski-WA); f/d card, sked in 26 weeks for used stamps. (Sarrazin-CO): 6065, f/d SS card, sked & pennant in 20 days for 1 IRC. (McManus-ONT).  
 SPANISH SAHARA: RTV de Sahara, 11805, last hope letter to Madrid after 3 letters to El Aaiun were ignored resulted in verification on RNE card for El Aaiun. Glad to get this one as others reported no acknowledgement from Madrid on this. (Hoogerheide-KY).  
 SRI LANKA: SLBS, 15120, attractive photo card in 29 months (!) after intervention of friend Victor Goonetilleke. (Calkin-PAKISTAN).  
 VOA-Colombo, 9520, f/d card in 8 days. No rp. (Rojewski-WA).  
 SWAZILAND: Swazi Music Radio, 4980, letter from Zena Watkins saying they are a small station and do not issue QSLs or pennants (?). Received in 24 days for EE rpt. No rp. (Scott-ONT).  
 SWEDEN: R. Sweden, 9695, card and sked in 15 days. No rp. (Peterson-CT): 6120 f/d card, SCDXers mag in 2 months. No rp. (Noonan-WI): 15305, card in 60 days. No rp. (Gadous-VT).  
 SWITZERLAND: SBC, 9725, two f/d "Street Scene" cards for only 1 rpt in 36 days. No rp. (Gadous-VT): 6135, f/d "Basel Market" card in 56 days. No rp. (Ihnat-PA); f/d "Mike" card in 61 days. No rp. (George-TX).  
 TAIWAN: VOFC, 15270, superb "City of Cathy" card and sked in 4 weeks. (Padula-AUST).  
 TOGO: R. Togo, 5047, card w/date and time and full sked on back in 23 days. Stamp has 1976 Bicentennial symbol and a painting of the signing of the Declaration of Independence. No rp. (Scott-ONT).  
 TUNISIA: RTV Tunisienne, 15225, colored "Cafe de Saf-saf" card with full EE QSL text in 4 weeks for 1 IRC. (Padula-AUST).  
 TURKEY: V. of Turkey, 11880, "Shadow Plays" card and sked in 29 days. No rp. (Peterson-CT).  
 UGANDA: UBC, 9730, mimeo half-sheet verie letter w/o time in 26 days for 3 IRC's and EE rpt on EE xmsn at 2030-2100 GMT. (Conrad-IA).  
 UKRAINIAN SSR: R. Kiev, 7205, f/d card and sked in 50 days. No rp. (Hoffman-PA): 7150, f/d card and sked in 35 days. No rp. (Peterson-CT): 15245, f/d card, sked, rpt forms in 52 days. No rp. (McManus-BC): 7250/7400/15100, f/d cards, sked, "News from Ukraine", and pennant for 5th rpt in 30 days. No rp. (Noonan-WI).

R. Moscow via Ivano-Frankovsk, 9660, f/d card in 30 days. No rp. (Camillo-NY). Via Lvov, 6125/7150, cards in 30 and 46 days. (Noonan-WI). Via Starobelsk, 7175, f/d card in 34 days for FF rpt. However, this was heard and reported as 7135 kHz but QSLed as 7175 kHz. No rp. (Gionet-NB).  
**UNITED STATES:** KGEI, 15280, f/d card, sked, religious info and pennant for EE rpt on SS xmsn in 57 days. No rp. (Alintuck-MA): 5980, f/d "San Francisco" card in 18 days. No rp. (McManus-BC).  
 WYFR, 6155, f/d card, sked and religious info in 16 days. No rp. (McManus-BC).  
 VOA-Greenville, 9635, f/d card w/site in 6 days. (Sarrazin -CO): 15410, f/d "Stamps" card, sked, info sheets and pamphlet in 7 days for a 13¢ stamp which was returned. (Ihnat-PA).  
 AFRTS via Dixon, 17765, f/d Dept. of Defense card in 17 days. No rp. (Gionet-NB).  
 WWV, 10000, folder card in 12 days. No rp. (Ihnat-PA); "Prairie" card in 32 days. No rp. (Gadouas-VT).



Q.S.A.

4826 KHZ  
1450 KHZfrom  
PITT  
MCNEIL

**VATICAN:** Vatican Radio, 9605, f/d "Stato Citta del Vaticano" card in 25 days for 1 IRC. (Glazzy-CA).  
**VENEZUELA:** R. Maturin, 5040, f/d card in 30 days. V/s Alonso J. Hurtado. (Hoogerheide-KY).

R. Capital, 4850, persobal QSL letter 1 year, 1 month after SS rpt and mint stamps and 2 months after 4th f/up. V/s Maria Eugenia Rivas A., Relaciones Publicas, said she had already answered my letter 3 times and was sorry I had not received the replies. Apparently, in order to ensure delivery, she sent this letter inside an envelope of a government agency, the "Instituto Nacional de Obras Sanitarias", which I guess is either the National Institute of Health or the Department of Sanitation! It really was puzzling when I first got the envelope. (Lazarus-LA); letter w/o time and postcard in 114 days for SS rpt and 1 IRC. Verie letter and card were in a sealed, unstamped Radio Capital envelope which was addressed to me and this was enclosed in a large brown envelope stamped "Instituto Nacional de Obras Sanitarias". Letter was dated Sept. 8, but was not mailed until Nov. 22. (Gionet-NB); letter in 3 months after f/up. (Barto-CT).  
**VIETNAM (N):** V. of Vietnam, 10040, f/d card and issue #49 of "Vietnam Courier" in 7 months for EE rpt. No rp. (Quinn-NY); "Greetings from Vietnam RTV" card, sked and "Vietnam Courier" in 19 days for EE rpt on FF xmsn. No rp. (Poppin-CA).

**YEMEN (PDR):** Aden Radio (PDRYBS), 7190, f/d pink card and stamps from Abdul Aziz Guaidi in 2 1/2 months. (Calkin-ONT); pink "Antenna Tower" card w/o time in 104 days for EE rpt on AA xmsn and 2 IRC's. (Conover-PA).  
**ZAIRE:** R. Lubumbashi, 4750, f/d FF letter in 1 month after FF f/up. V/s Makoso Zinga. (Hoogerheide-KY)

La Voix du Zaire, 15245, verie letter in 3 months for 2 IRC's. Three previous rpts with a total of 8 IRC's were ignored!! (Wiles-WV).

Until next month, lots of luck,

Deadline for February issue: January 15.  
 Deadline for March issue: February 12.

*Bill*

Topline tip... ANDORRA (ta-dah!) - Heard on 12/26 at 0755 with xmas songs like "white Christmas" and "Rudolph," plus some rock and roll tunes. Off at 0802, but back again from 0820-0838 with M in EE ID and freq as 6230! Got it on tape, and am very pleased with this one. (John Sgrulletta, New York)... Andorra hrd on 12/26 from 0743-0843 f/o, on 6229.6. Vy weak at first, then up to decent modulation, when all of a sudden they went off the air at 0805. Came back at 0811 with much better reception, while playing rock music, and



# DX HOTLINE

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JANUARY, 1977 PRENDX  
Next deadlines: 14/1, 25/1  
and 11/2. Or send in as  
it is heard.

(Topline con't) man in seeming Dutch talk. Off again at 0815, then back on at 0817. Listened until 0843 f/o. My guess is that maybe they were testing a transmitter of more power. Glad to have them! (James Young, California) Congrats to both of you! Especially you, Jim, out there in the WCNA! John called me on Sunday night, and Jim's lovely wife Karen called me on Monday with the "hot" tips. Each report was identical. Good luck on the QSLs. Ed.

NEW IRELAND - RNI heard on 2428 with fair/poor sigs from 1141. Ute QRM really hurt. Pid talk by YL. Various types of mx. No s/off at 1200, only more tlk, chimes, then more tlking by OM. Other 120mb PNGs inaudible. Only carriers heard. Finally 1300\*. By 1302 carriers on freqs of other PNGs gone. (Alan Laves, Texas) Nice Alan. For those of you that don't know it, Alan and his comrade in crime, Rob Vokes, are proteges of Bob Hill's. These are two guys on the move in this hobby. Better watch them! Ed.

QATAR - QBS hrd on 9570 between 1310-1345 in program of AA tlk, various vocals and instrumentals, several IDs and mentions of Qatar; fair level w/ some QRM de RNE (James Ronda, OH) Jim says to score one for my propagational picks. Tnx Jim! Ed.... Doha hrd on 12/17 w/pr sig, 1343 t/in with M chants in AA, pos anmts by W in AA, local music w/W singer to pre-1400 anmts and f/o! (Bill Whitacre, Michigan)

ADMIRALTY ISLANDS - Radio Manus, 3905, hrd 1248-1256 in and out of ham QRM with a choral type song, which seemed religious in nature. M on for a few words at 1255, then right back to music. Poor and weak on 12/26. (Moritz)

PNGs - Heard by your editor, and his ever faithful companion, Al Miller, were the following PNGs. All on 12/26 with poor to fair sigs: 3220 Morobe, 3245 Karema, 3322 Bougainville, 3335 Radio East Sepik, and 3360 RMB. All these during 1230-1305\* period. Al says he wishes they would go away and the sub cont would come in! Me too!!! Ed.

SIERRA LEONE - SLBS, 5980 from 0810-0825 in EE with local current affairs. Heard only because local KGEI off with transmitter trouble. Good copy on 12 December (Larry Nebron, California)

HONDURAS - Radio Swan, 6015 from 1245 with ID, pop music, back on this new frequency on 12/20 (Jack Jones, Mississippi) Jack, it's only fitting that you reported this new change first! hi Ed.... Radio Swan now on 6015 in local mornings with IDs, pops, etc. (Al Miller, OH)... 5972.3 (T) LV Centramerica 1015 w/f-p sigs. Ads, lots of SS tlk. No ID hrd, but... (Alan Laves, TX)

*Propagational picks...* I hate to harp on this, but my guess is that the geomag field will be quiet during January, and that there will be an opening to the sub cont on 90mb during the time you read this and during the last week in January! Just be patient and check every day! Your patience will be rewarded with some low-power Asian catches. First one to report a 90mb Pak or AIR regional to me gets Topline status and two IRCs for your report compliments of ye ed!

**NIGERIA** - Everybody and their brother is hearing Nigeria on the 4900 kHz outlet, but only Bill Whitacre has caught a transmission site! Bill says: 4900, Enugu on 12/16, //6195 before and during 2200 National nx, 2130 lcl ID just missed then into native pgm w/cheers, M anncr and lcl ms, tx off btwn 2146-2147, 2159 time pips after ntwk IS, ntwk nx to abt 2203 when hrd W in native lang, 2211 back to EE with s/off anmts, 2212 local and ntwk IS, "Radio Nigeria from Enugu" ID, NA by choir then more lcl pgmwg w/M in lang or prayer of some sort (Bill Whitacre, MI) Nice ears Whit! Ed.

**AZORES** - 4865, Ponta Delgada with devastating sigs during 2100-0047\* period. IDs per WRYVH. Everybody indicates more power here. Those reporting: (Bill Whitacre, Jim Ronda, Andy Robins and Gerry Bishop)

**NIGERIA** - RN, Benin, from 2130 w/native and pop tunes, EE interview pgm, nx and ID. On 4932, and first time hrd this season (Bill Whitacre and Andy Robins, MI)

**AFARS & ISSAS** - Djibouti, 4780 hrd from 0410-0450 with M and W in East African type lang, and chanting type songs, same as I am hearing from Somalia (Gerry Bishop, PA)

**ECUADOR?** - 3360, at 1104 sign-on, on 12/21 a long, complete rendition of the Ecuadorian NA, then slow, droning song, by OM; t/k (maybe some of it devotional), no ID, but exactly like s/ons I have hrd several times on 4870 by Radio Rio Amazonas-could this be them?-- Nahuala was here during later re-checks (as usual). Could this be Nahuala carrying tape of Rio Amazonas pgm? Do TG and HC Indians speak same language? Maybe both stations are affiliated with same missionary organization? (Jack Jones, Mississippi) Ralphus, can you give us a hand with this one? Ed.

**INDIA** - 6085, AIR, Madras at 1302 with sub cont music, Hindi anmts. Gone by 1315 (Bill Whitacre and Andy Robins, MI)

**BOLIVIA** - 4990, Radio Em Beni, certain on all but exact slogan. First noted 12/14 1008 t/in to 1055 when overtaken by splash. Though Trinidad smtr, ngming during this first hr on air (consistently in rels this week) is "musica del exterior" usually featuring sierra huaynos. Frequent t/cks as "...hora de Bolivia...y minutos..." Mtn of Beni, also "radioemisora", but not both in same phrase yet. Very lax operation, as s/on time varies 1005-1030 daily, apparently depending when they can assemble a full staff. hi. Muddy sig but surprisingly strong at times. Thanks to Al Sizer for snooping this one out. (Ralphus W. Perry via GLDXA advance from Jim Ronda)

**ZANZIBAR** - 3339, RTZ, 0304-0326 t/out on 12/9, chanting till 0319, then t/k by OM. Gud copy the ute on high side (John Tuchscherer, Wisconsin) Hope you had a merry xmas JT, and also hope you are feeling better. You have any ideas on JJs 3360? Ed.

**MAURITIUS** - 9710, Forest Side, finally with some respectable audio on 12/12, 1248 definite sub cont music on stringed instrument, 1255 OM anmt in lang, poss nx summary, 1259:45 s/off after end of orch mx, possibly NA? (Bill Whitacre, MI) Nice! Ed.

**PERU** - 4800, Radio 15-50, very tentative, noted 12/15 very weak with lively music from 0406-0434 t/out. Net Lara or Popular. They ID'd, but could not read this one due to ute (John Tuchscherer, Wisconsin)

**BRASIL** - 3411, Radio Xapuri, fair at 1034 in PP. LA ballads and lively ms. Talks and ads. Very quickly evaporated as soon as 1055 for all practical purposes. (Alan Laves, TX)

**DX CONFAB** - More info on the extravaganza we told you about in the mid-winter. Bob Hill says the date is Jan 29 at the Daly City Public Library, which is about 5 miles southwest of San Francisco. Program will begin promptly at 10 a.m., and will include talks, equipment, pamphlets, freebies, and other goodies. The formal part of the gathering will be followed by an all night dx session at Bob's house, where two R390s and a FRG7 await anyone's use. This promises to be the DX event of the century. If you are in attending contact Bob at 139A Fifth Avenue, San Francisco, co-host, Larry Nebron, at 27 Garden Grove Dr., Daly City, Cal will be one gathering you will not want to miss!

had great holidays. Catch ya next month. 73s de john-john

# log report section



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1605 kHz - 4900 kHz

JANUARY, 1977

JANUARY EDITOR: PITT McNEIL

A Happy New Year to you all. By the time you read this I will be in Berkeley, CA and hope to visit many area DXers. My thanks go to Pitt McNeil for taking the January LR-A on short notice; I'll be back in Washington for the February issue. With dreams of Cook dancing in my head...and hoping you all had an enjoyable holiday season.....  
onward. -DR

- 2040<sup>+</sup> GUATEMALA R Miramundo; Closing at 0047\* after "Atencion" anmt, and marimba mx; on local Sunday (Hauser 12/6) 2 x 1020.25
- 2340 CHINA PLA; 1120 OM w/CC chatter (Beal 11/9)
- 2360 GUATEMALA R Maya; 1005 talk in Indian lang, F (Legge) 0115 SS talk and local mx (Luce)
- 2390 GUATEMALA LV de Atitlan; 0102 SS talk & mx, P (Luce) 1115 SS talk, local mx, vocals, ID (Osterman)
- 2420 GUATEMALA R Rumbos; 0420-0440 LA mx, SS ID, 2 x 1210 (Cain)
- 2430 CHINA PLA-2; 1125 stringed instrmls, CC vocals (Beal)
- 2455<sup>v</sup> INDONESIA RRI Dili; 1340-1400a\* Indo talk, light Western mx, even some Moog mx; good level //3120; nf (Cosier 11/20, Junqua 11/30) # Should make it to WCNA, and maybe even the MW. pm
- 2460 CHINA Yunnan PBS; 1427 1st px w/CC tlks, mx (Junqua 11/17)
- 2475 CHINA Hangzhou; 1130 continuous CC chatter by W (Beal 11/9)
- 2500 INDONESIA UNID; 1334-1400\* YL/OM talks in Indo mixing w/JJY, WWVH, and Vladivostok harmonic (Junqua 11/17)
- 2580.6 COLOMBIA R Pipaton; 1000-1012 SS clear ID, some ads, mostly accordian & voice songs (Earhart) 0429 SS, 2x1290.3 (Hauser)
- 2840 VENEZUELA R Vision; first noted 11/14 at 2300 w/ tropical mx & jingles, IDs, also 0300-0601+ so probably all night; ID: "En la tierra del gran sol, R Vision"; is a name change for the fund-amental 1420 (Hauser)
- 2850 KOREA Pyongyang; 1045-1050 w/straight KK talks by M, F (McNeil 2130 f/in to 2230 f/out, usually good 2200 in weeks near winter solstice, march mx, often hrd, best 12/6 (Foxworth) # Nice! pm
- 2950 HAITI LV du Peuple; 0000 trop mx, Creole anmts, 2x1475 (Hauser)
- 3120 INDONESIA RRI, Dili; 1245 Indo talk, US pops, ID (Vokes 11/12)
- 3194<sup>+</sup> IRAQ R Baghdad; 2056 OM in Turkish talks, 2058 guitar type mx, then M w/ID and talk, 2100 short mx & off; VP in utes (McNeil)
- 3200 CHINA PLA; 1049 W in CC with talks (Cain)
- 3204 NIGERIA NBC Ibadan; 2257-2305\* EE, local mx until ID 2300, then NBC mx; P (Mayer) 0530 talk & occasional drum mx (Vokes)
- 3210<sup>t</sup> MOZAMBIQUE R Mozambique; 0330 PP w/mostly instr mx, talk, 0415 chorus singing (Butterfield 9/19) # I have always hrd this at \*0400, but with the political climate in SA you never know. pm
- 3222 TOGO Lama-Kara; 2054 FF tlk by M, then into songs, G (McNeil) 2215-2231\* FF, local mx, ID and NA to s/off (Mayer)
- 3223- INDONESIA RRI, Mataram; 1250 Indo talk, Love Ambon (Vokes)
- 3225<sup>v</sup> VENEZUELA R Occidente; \*1030-1100+ SS, s/on w/IDs, LA and YV songs, frequent IDs (Cain, Jones, Osterman) 0005-0018 t/o SS, LA and US mx, IDs; ute QRM (Tuchscherer 12/8)
- 3240 SWAZILAND TWR; \*0315-0335 Tswana talk, hymns in lang, one hymn in EE; F/P (Legge 12/5, Lineback 11/14)
- 3240 PAKISTAN PBC Rawalpindi; 1554 lcl mx, Dari tlk by W;G (Wootten)

- 3245+ VENEZUELA R Libertador; \*1003 NA, ID, calls, freqs, YV mx and SS anmts (Jones) 0230-0405+ SS songs, ads, anmts by YL, TCs, and jingles (Roberts, Tannenwald)
- 3255 VENEZUELA LV del Tigre; \*1000-1017+SS IDs, TCs, YV mx (Cain, Jones) 0255 SS ads, LA mx, ID; poor (Yajko)
- 3260+ NIGER Nnamey; 2135 heated discussion between three people in local lang //5020; best ever: good in line noise (McNeil 11/23)
- 3260 ECUADOR R Carrizal; 0239-0256 t/o SS IDs & LA mx (Tuchscherer)
- 3265 INDONESIA RRI, Bengkulu; 1258 mx & OM Indo tlk, into Love Ambon (Vokes 11/21) 1350 GG marches, Indo ID 1359, then local nx in Indo (Cosier 11/5)
- 3275 VENEZUELA R Mara; 1055-1103 SS ads & mx, ID by YL 1100, then ads, short mx, & nx (Earhart) 0215 SS ID, LA mx (Tuchscherer)
- 3280 ECUADOR LV del Napo; 0150-0208 SS, LA mx, 0208 ID (Hancock)
- 3285 BELIZE R Belize; 0103-0405 EE, OM & YL talk abt economy of Belize, EE/SS mx, ads; had SS before 0100; 0300 has EE nx, ads & community anmts; //834; F (Roberts, Miller, Nebron)
- 3290 GUYANA GBS; 0920-0957 EE anmts, TC, rel px, chants; VG signal (Osterman) # If this is coming in gd, check 3265 for Demerara. pm
- 3295 VENEZUELA R Trujillo; 1026-1140 SS, LA mx, ads, mentions of Venezuela (Cain, Tannenwald) 0140 SS ID, LA vocals; P (Yajko)
- 3300 GUATEMALA R Cultural; 0250-0430 EE rel pxs, mx (6 rpters)
- 3315 MARTINIQUE FR3; 0010-0152 FF, nx by M&W, then EE pop rock, FF vocals, drum mx, piano solos (Hancock, Cain, Green)
- 3316 SIERRA LEONE SLBC; 2200 EE pop mx request px, W read from letters, Holy Koran readings & NA to 2400\* (Overcamp, Hancock, Yajko, Zilmer) 0559-0710 rel px in EE, lang nx (Hancock)
- 3325 VENEZUELA R Monagas; \*0955-1005 NA, ID, ads, nx 1000 (Earhart)
- 3325 GUATEMALA R Maya de Barillas; 0326-0340\* SS px of Applied Bible Study, TC w/ID, also "desde la corazon de America, Radio Maya de Barillas presento..." Abrupt s/off (Roberts) 0412-0429\* EE/SS pxs, mostly religious (Poppin)
- 3325 BRAZIL R Gazeta; 0025 disco junk, ID mid song by DJ (McNeil)
- 3330.4 RWANDA R Rwanda (tentative); 2058-2102\*, drum mx hrd in peak briefly; nxt day to 2101:30\*; VVP in CHU QRM (McNeil 21,22/11)
- 3335+ NEW GUINEA R East Sepik; 1200-1204\*, chimes at 1200, NA at 1203 to s/off (Ravenhorst 11/20)
- 3345 BRAZIL R Ed. Uberlandia; 0020-0030 LA mx, PP tlk, ID (Tuch.)
- 3360+ FAPAU R Milne Bay; 1108 chants and talks between chants in lang (Ravenhorst 11/20)
- 3360 GUATEMALA LV de Nahuala; 0345-0403 LA mx, ID & TC 0348, into Guatemalan folklore vocals; ute QRM (Roberts, Schwartz)
- 3365 VENEZUELA R Plc; Rapid fire SS DJ, ID 1035, LA mx (Earhart)
- 3366 GHANA GBC-2; 0600-0630 EE, world & local nx, ad for Royal Gas (Hancock) 2204 EE rel talk, poor (Yajko)
- 3375 ANGOLA R Nacional; 2310-2332 t/o, PP, variety of pop mx (Tuch.)
- 3380 MALAWI MBC; 2040 lite Af mx, EE/lang talks, poor (McNeil)
- 3380 ECUADOR R Iris; 0220 SS ID, mx (Schwartz) /Yajko
- 3380 GUATEMALA R Chortis; 1135-1200 SS ID, Mex. type mx (Hoffmann,
- 3385 USSR UNID; 1334-1400\* RR talk & light mx over Miri; last noted on this freq on 10/7/75; possible feeder? (Junqua 11/10) # Yes, is listed as such in CME in June Frendx. pm
- 3385+ PNG RENB; 1150 EE, folk mx, incl. yodeling; F (Hoffman)
- 3385 FR. GUIANA FR3; \*0915-0930+, s/on w/FF talk, FF pop songs; on 12/1 was \*0900 (Cain, Tannenwald)
- 3385 VENEZUELA R Barcelona; 0148 SS IDs, LA mx, poor (Yajko)
- 3390 ECUADOR R Zaracay; 0015-0454 Andes vocals, beautiful flute mx, SS tlk, IDs (Roberts, Tannenwald, Earhart, Poppin) 1008 (Yajko)
- 3395 INDONESIA RRI, Tanjung Karang; 1305 chants, Indo tlk (Vokes)
- 3395 VENEZUELA R Universidad; \*1015-1025 NA, sev IDs, into mx (Earh't)
- 3396 NIGERIA NBC-Kaduna; 2235 vern tlks, lcl mx, chants; F (Mayer)
- 3396 RHODESIA RBC; 0400 EE nx, ads, cmntry, ads //3306 (Green, Glazzy)
- 3411+ BRAZIL R Xapuri; 0100 & 1000-1030 PP tlk, IDs, ads, mx (McN.)
- 3425 NEPAL R Nepal; 1225-1300 chanting to 1230 Nepali ID, nx, flute like mx between nx items, ID 1245, subcont mx (Ravenhorst 11/20, Osterman 11/14) # Try for \*0020, too. pm
- 3450 CHINA CPBS-1; 2310 CC tlk by W, into vocals by YL; F via LP (McNeil) 1647-1655\* RP w/ RR px, s/off w/Intnl (Poppin)

- 3494<sup>1</sup> BOLIVIA R Alfonso Padilla Vega; 0222 w/usual dull, and all-round boring px of SS tlks by OM (McNeil 11/20)
- 3500 CHINA RP; 1708-1730 RR ID "Govorit Pekin", cmntry (Poppin)
- 3535 CHINA PLA; 1130-1145+ CC tlks by M&W; G (Hoffmann, McNeil)
- 3550v INDONESIA RRI, Kupang; 1237 Indo tdk, chants, Love Ambon 1259 (Vokes) # Often hrd here but always weak 1100-1200. pm
- 3560 KOREA Pyongyang; 1140 RR tdk, YL singing, KK mx (Hoffmann, Beal)
- 3640 CHINA PLA-1; Usually the earliest 3 MHz China to f/in, beginning at least 1000, VG 1045; CC yak, operas (McNeil, Earhart)
- 3886<sup>1</sup> CAPE VERDE Praia; 0027 Xmas mx, PP tlks by M&W; G/VG (McNeil)
- 3900 CHINA Hailer (L); Always the best on the band 1130-1200 with CC talks, revolutionary mx, ect; fair in hams (McNeil)
- 3910 JAPAN FEN; 0827 US pop mx, into classical mx; sorry abt misleading freq I rpted in Sept Fren dx (Cain) 1205 EE ID, weather, mx; very good (Hoffmann)
- 3915 PAKISTAN Azad Kashmir R; 1607 local mx, ments of Pakistan in lcl lang; F (Wootten) # Per TBS updater, new sched for this is 0100-0434, 1415-1834 (Sun 1904) with 10 kW. pm
- 3925 INDIA AIR, Delhi; 1620 lcl mx & tdk in lcl lang; F (Wootten)
- 3925 JAPAN NSB-Tokyo; 1215 JJ w/wx for Japan; VG (Hoffmann)
- 3940 CHINA Wuhan; CC ID, "East is Red" to 1605\*; P (Wootten)
- 3945 JAPAN NSB-Tokyo; 0720-0740 JJ, no ID, but hrd Tokyo mentioned; mostly fast talk by M&W, some mx //3925; G (Hoffmann 11/18)#gd!;m
- 3952 ENGLAND BBC; EE still here at 0700; unusual reception when summer so near (Willis-Australia) # Nice LP, Mike! pm
- 3960 CHINA Chifeng (L); 1140 M&W in CC discussion (Beal) # Chifeng not listed in anything I can find; R Peking is often hrd here in JJ 1130 or so. pm
- 3960 INDONESIA RRI Padang; 1010 Indo, local & C&W mx; early (Beal)
- 3965 PAKISTAN RP, Islamabad; 1307 EE nx, 1311 lcl anmts (Junqua)
- 3970 CAMEROON R Buea; 2145-2200\* Choral type Af mx, FF ID 2200, then NA and off; poor (Mayer 11/26) # Nice, Al! pm
- 3974<sup>1</sup> INDONESIA RRI, Surabaya; "Old reliable" here at 1126 w/Indo tdk by W; first time this season (McNeil 11/22)
- 3975 ENGLAND BBC; 2220-2230 EE mx px; P (Mayer) 0345 AA; G (Lineback)
- 3980 GERMANY VoA-Munich; 0530-0600 Breakfast Show, EE pop tunes, EE country; bad ham QRM; just rec verie from Monica (Hancock) 0500 mixing w/BBC (SABC? pm) w/EE nx (Butterfield)
- 3980 RSA SABC; 0335-0340+ EE ID, '20s mx, Johnny Mathis song (Poppin)
- 3985 SWITZERLAND SBC; EE nx 0700, and as early as 0600; strange reception since it's nearly summer (Willis-Aust) 0900+ GG (pm)
- 3985 ECUADOR R Esc. Rfonicas; 1130 SS, martial mx, anmts, ID (Beal)
- 3989<sup>1</sup> CYPRUS BBC; AM carrier noted 2111-2115\*, talk by M in brief peak; VP in het w/VoA 3990 (McNeil 11/21) #/ (time? pm)
- 3990 LIBERIA VoA; EE w/special bc of Pres debate; F (Butterfield 10/7)
- 3995 RSA RSA; 0349-0358 EE to Af, pops, IDs (Poppin) \*1856 PP to Af, nt for this svc; xed by Italy (Padula 11/8)
- 3995 USSR Nikolayevsk-na-Amure; 1049 classical mx px; VP (McNeil) 7250 YL RR talk, RR vocals; good strength (Vokes)
- 3998 VIETNAM Hanoi; HS //10060 at 1300-1630\*; good (Willis)
- 3999 GREENLAND Grynland R; 2230-2240 Greenlandic, sounded like hymns and church svc w/YL & M talk; fair; no QRM (Mayer 11/21) 0115-0205 talk by M; apparently nx 0201 by W, then loud vocals by M, and mx interludes; low audio; QRM (Cress 11/28) \*1011-1052 IS, M&W tdk, soft mx to 1028 IS again, nx, then old US pops; F; (Boomer 11/22) 1030-1145+ one day in three, usually F/G (McN.)
- 4000v AFGANISTAN R Afganistan; \*0125 flute IS to 0128 OM in Dari, 0130 straight into solo chants by M, usually w/out musical accompaniment past 0140; F/G in ham QRM; nf first hrd by Bob Hill 11/11 on 3999.5; always hrd on quiet days (McNeil 12/16)
- 4010 USSR Frunze; 1154 classical mx & chorus singing, 1200 W in lang w/nx, sounds like RR; VP and fluttery (McNeil 12/14)
- 4050 USSR Frunze; 1202 w/lang nx by YL, not//4010, but the same fade pattern & slightly better sigs; P (McNeil 12/14)
- 4055 USSR Petropavlovsk?; 1413-1430 RR, good RR pop mx, heard mention of Kazakh SSR (Poppin 11/28) This is never reported in Europe or the US and only operates 0130-0200 Monday-Friday in local lang. I kindly suggest you had one of the USSR stations on 4050, Frunze or Yuzhno-Sakhalinsk. pm

- 4055 USSR Moscow, M2; 2028 piano mx, 2030 Mayak IS, W w/Moscow ID, then RR nx to 2035 class mx to 2057, OC, 2100 one IS, and OC to 2103\*; F; hrd often late Nov, 76 (McNeil 11/23)
- 4102v VIETNAM Viet Bac; 1204-1410\* mx & VV amnts //6904; E (Willis)
- 4130 CHINA RP; 2254 w/Int.; 2303 Italian nx; G at first; via LP (pm)
- 4200 CHINA RP; 2302 tlk in SEA lang; P u/utes (McNeil 12/7) 12/7
- 4250 CHINA CPBS-2; 2258 Int., 2300 CC nx by W; G via LP (McNeil)
- 4424½ BOLIVIA R Paititi; 2350 SS M w/nx, lcl amnts, ID; F/P (McNeil) 0350-0400\* CP mx, tlk sounded like Indian lingo, no ID (Hancock)
- 4485 USSR Petropavlovsk-Kam.; 1204 RR, class mx, tlk by M; F/G (Green) 0550-0557 RR, RR-style folk & choral mx, W tlk (Boegel)
- 4500 AUSTRALIA VNG; 1044-1046 EE ID, time pips; G (Schipellitti)
- 4520 USSR Khanty-Mansiysk (Tyumen Oblast); 1835 local mx, RR tik by M anc; F (Wootten-Italy) 0151 suspected here since Palana not on yet; male voice in RR, w/LA SSB QRM; heard many nights in November, seems to peak abt an hour after Dushanbe 4635 (Young 11/20 via TDXN)
- 4545 USSR Alma Ata; 1157 OM in RR, into lite mx, 1159 OC, 1200 M w/short tlk, into patriotic songs on 12/13; 1152 w/class mx and chorus singing on 12/14; F & fluttery both times (McNeil) 1242 nice marimba mx, 1245 M&W tlk in RR (?); VG (Junqua-Japan)
- 4610 USSR Khabarovsk; 0630 RR, class mx (Grenier 12/8) 1130 RR tlk by M under the ute; VP (McNeil)
- 4615 USSR Pavlodar (L); 1210 in lang w/opera mx w/M&W vocalists (Beal 11/27) # This stn operates 0130-0200, and 1330-1500 and the 1330-1500 tx has not been rpted anywhere in ages. I suggest that you had 4610 USSR as you did on 8/26/76. pm
- 4620 CHINA Peking; 1133 lang nx by M&W; VP (McNeil)
- 4635 USSR Dushanbe; 0030-0040 RR YL w/tlk, classical mx; P (Mayer) 0232-0400 f/out mostly ME/Persian type mx, RR talk, nx 0300; VG to abt 0330 during good opening to ME (McNeil 12/1)
- 4652t LAOS Vientiane; 1203 nx by YL in tonal lang; not the RPKD stn; VP (McNeil 12/15)
- 4668t BOLIVIA LV de Yucama; 0233 straight SS tlks by OM, one little piece of mx; weak, but finally in the clear (McNeil 11/20)
- 4680v ECUADOR R Nac Espejo; 0300-0405 SS IDs, ads, mx (Green, Mooney)
- 4696½ BOLIVIA R Riberalta; often 2300-0330v\*-0430v\*; P/F (McNeil)
- 4699 INDONESIA RKIP, Surabaya; 1149 chorus song, then M in Indo to 1158 singing, 1159 ID, then 1200-1203 poss nx; P (McNeil 12/15)
- 4719 INDONESIA RRI, Ujung Pandang; 1253 Indo tlks by M; Fair (Lineback) 1330-1340 end nx 1330, short string mx, march mx w/choral vocals, then OM w/Indo amnts; F w/fading (Roberts)
- 4720v CUBA R Relebe; Vy likely 4721t Mindelo of Dec Frenx; hrd 0755 but this is an all-nighter; 8x590 MW (Foxworth)
- 4725 EURM BBS; \*1000-1435 lcl langs, SEA mx; P/F (Beal, Brookwell)
- 4738+ BOLIVIA R Abaroa; 0137 SS, Andean mx & singing; weak (Miller) 1009-1030 SS w/LA mx (Filka 11/26)
- 4745.2 MOZAMBIQUE R Moz.; \*0356 unfamiliar anthem, 0359 W in PP, ment Mozambique; 0400 bh TC, ID & nx; app ex-4755 (Hauser 11/15) # I can't find a trace of it now (0355-0405) while Tanzania 5050½ is booming in; has it moved again? pm (12/19/76)
- 4750 ZAIRE R Lubumbashi; 1854 lcl mx, vern ID, IS (?) 1900 (Wootten)
- 4751½t ZAIRE R Lubumbashi; 0354-0404 in checks w/lite E Af mx, chorus song, M in FF (?) --def not SS or PP, & more mx; G (McNeil 12/19)
- 4755 BRAZIL Rdif Maranhao; 0125-0315 PP tlk, ads, sev IDs, Braz & US pops; 11/12 soccer game, IDs (Vokes, Beal, Lineback)
- 4760 VENEZUELA R Frontera; 0155-0230 SS, US pops, LA mx, IDs (Mahaffey)
- 4765 CONGO RTVC; 2055 PF (Schwartz) 0504 Guitar IS, FF ID, tlk (Poppin)
- 4770 LIBERIA ELWA; 2107-2300\* & \*0629 EE rel pds, flute IS (6 rpters)
- 4770 VENEZUELA R Bolivar; 2350-0200+ LA mx, IDs, TCs (Delap, Mahaffey)
- 4773 AFGANISTAN RA; 1347 Urdu (?), YL w/tlk & subcont mx, 1400 EE px not //3390 (Junqua 12/1) 1400-1430 EE nx, ID, cmntry, lcl mx, IS 1427, followed by Pushto/Dari px; P (Wootten 11/27)
- 4775 INDIA AIR Gauhati; 1143 Hindi chants to 1214:30 stn ID by W in EE, then M in lang to 1215:30\*; over RRI 4774½ (McNeil 12/16)
- 4775 UNID 1255-1301 Western style YL vocals in lang, amnts by OM in lang, march mx & more tlk; F (Lineback 11/10) # Prob RRI. pm
- 4775½v BOLIVIA UNID; often 0100-0330v\*, can't dig out ID; P/VP (McNeil)
- 4777 GABON RTVG; 2225-2305+ Hi-life mx, FF amnts by M ment Libre-ville; F/G (Roberts, Zilmer, Beal) 0505-0532 FF, Af mx (Cain)

- 4780 VENEZUELA LV de Carabobo; 1000 LA mx, 1003 ID by OM (Beal)  
 4780 USSR Petrozavodsk; 0320 & 1200-1235+, class mx, RR tlk (McNeil)
- 4780.4 AFARS & ISSAS FR3; Carrier from 1940 w/little audio till 1946  
 drum mx, lcl singing audible, then OM wailing; 1957 M in lang  
 like AA, then W, then what seemed like an IS of drum mx 5 times  
 and short class mx NA to 2000\*; poor (McNeil 11/22)
- 4781½ DOMINICAN REP R Norte; 0205-0445+ LA pop mx, IDs, ads (Cain,  
 Jones, Green, McNeil) 1130 SS rel greetings, IDs (Tannenwald)
- 4783 MALI Rdif Nat.; 0535-0604+ & 2215-2311+ FF, Af mx (6 rpters)
- 4785 USSR Baku; 1930-2100 lcl mx, RR tlk; into M1 px 2100-2205v\*  
 w/class mx, RR tlk; also 0425 Azerbaijani (?) tlk, lcl mx; G  
 (McNeil) 2107-2135 class mx & operatic vocals, lang tlk (Cress)
- 4785 BRAZIL R Ribamar; 2345 PP tlks, ads, IDs, mx (Wootten-Italy)
- 4785.3 TANZANIA RT; 2000-2105\* Swahili tlk, lcl mx; het Baku (McNeil)
- 4789½ INDONESIA RRI, Fak-Fak; Faded up nicely 1217 w/Indo tlk by M,  
 into light local songs w/flute like mx 1220; F (McNeil 11/22)
- 4790 SWAZILAND TWR; 1638 hymns & lang tlk (Junqua 11/24)
- 4790+ PERU R Atlantida; 0100-0456+ LA pop mx, IDs, tlk (Richardson,  
 Jones, Yajko) 1031 SS, LA mx, ID (Cain)
- 4795 ECUADOR LV de los Caras; 0446 SS mx, tlk, ID; P (Jones)
- 4796½ BOLIVIA R America; 0006 SS or lingo tlks by YL; VP (McNeil)
- 4800t LESOTHO RL (Tent); 1535-1600 f/out EE tlks by M&W, part of  
 which sounded like the news, western style mx, ID "This is R  
 ....oh"; VP (Wootten-Italy 11/21) # Where was AIR Hyderabad?pm
- 4800 VENEZUELA R Lara; 2359 SS, IDs, LA mx; also 1000-1115 (6rpts)
- 4804 KENYA Nairobi; fade-in 1930 w/lite Af mx, tlk by OM in EE;  
 2000 EE nx, light mx interludes, OM w/ID, stn info, and "good  
 evening" to 2009v\*. Hrd 5 days running, best 11/21 (McNeil)  
 1955-2010\* mx px, EE nx, rel thots, ID & TC and anthem at  
 s/off; usually covered by RTTY stn (Wootten-Italy 11/17)
- 4805v BRAZIL Rdif do Amazonas; 2320-0040 PP, excited ancr, ads w/  
 jingles, IDs; P/P (Wootten, Miller, Cain)
- 4807 SAO TOME RN; 2235 PP talk, lcl mx; P (Zilmer) 0540 w/PP tlk  
 by OM; pretty good sigs (Vokes)
- 4810 RSA SABC; 2030+ & 0215-0415+ EE/Afkns, pop mx, ads, IDs (10rpts)
- 4810 GALAPAGOS IS LV de los Galapagos; 0025-0400v\* SS nx, ID w/  
 call, freq; OM&YL in drama, off w/NA; G (5 rpters)
- 4810 VENEZUELA R Popular; \*1054 NA, "Aqui R Popular desde Maracai-  
 bo", calls, freqs; G (Jones) 2330 SS, mx, IDs, tlk (Tannenwald)
- 4815 UPPER VOLTA RTV; 0600 OM in FF, Af mx w/M ancr (Gionet)
- 4815 BRAZIL R Itacema; 0820 PP, peppy LA mx, ID ev. 10min (Beal 11/  
 30) # Had been inactive a while, good catch. pm
- 4816½ COLOMBIA R Guatapuri; 0410-0600+ & 0800-1000+ SS (6 rpters)
- 4820 HONDURAS HRVC; 2300 SS ID (Tannenwald) 0300-0400 EE rel pxs,  
 ID, QTH, freq; gov't nx in SS 0345 (Green, Camillo)
- 4820 ECUADOR R Paz y Bien; 0715 mx, SS anmts, ID by OM 0719 (Beal) #  
 Strange time for them to be on.... pm
- 4825 DOMINICAN REP LV de las Fuerzas Armadas; 0302-0400\* SS, mostly  
 EL mx, IDs on thr, full ID w/freqs at s/off; G (Mahaffey,  
 Wolfish, Hancock)
- 4825 USSR Ashkhabad; 0402 w/RR nx by M&W; F but fading (McNeil)
- 4825 ECUADOR R Luz y Vida; 0440 SS IDed as "da las emisoras del R  
 Luz y Vida; usual LA format; poor (Brookwell 11/30)
- 4829.3 VENEZUELA R Tachira; SS, YV mx, many IDs; P (Cain, McNeil)
- 4832 COSTA RICA R Relej; 0100-1230+ usual stuff (6 rpters)
- 4835 RSA SABC; 1608 EE cmntry (Junqua) 2120-2205 EE, pop mx (Mooney)  
 \*0400 s/on w/IS (dove call), into tlk on agri-chemicals (Beal)
- 4835 GUATEMALA R Tezulutlan; 1252 marimba mx, SS ID, TC; P (McNeil)
- 4840 INDIA AIR Bombay; 1653 lcl mx, EE ID by W; P (Wootten-Italy)
- 4840 CHINA PLA; 0936-1140 CC tlks by M&W (Cain, Tannenwald)
- 4840 PERU R Andahuaylas; 0445 Andean mx, SS ID (Vokes 11/13)
- 4840 VENEZUELA R Valera; 0300-0400v\* SS, LA mx, IDs, off w/NA (6rpts)
- 4843 CONGO Pt. Noire; 0518-0535 FF ID, local mx, OM w/FF anmts;  
 poor (Mayer, Schwartz)
- 4845 MALAYSIA RM; 1510-1530\* lcl vocals, Indian tlk, NA\* (Wootten)
- 4844½ HONDURAS R San Ysidro; 0030-0400+ MoRish songs, SS tlks, IDs,  
 frequent TCs, few ads; VG; only 12/6, 8 (McNeil)
- 4845 BOTSWANA RB; \*0348 w/cow-bells, mooing IS 0358 ID & into Set-  
 swana px w/tlk & pop mx; F/G (Overcamp, Krueger, McNeil)

- 4845 MAURITANIA Rdif Nat.; 2109-2400v\*, 0603-0730+ AA chants, mx, IDs in AA & FF; VG/Exc most of the time (8 rpters)
- 4850 CHINA CPBS-2; 1146 CC tlk u/R Capital; poor (McNeil)
- 4850 USSR Tashkent; 0803 RR, piano mx, ID in EE/RR 0807, tlk (Beal)
- 4850 DOMINICAN REP R Clarin; 2330-2400 "This is Santo Domingo", new EE px, geared toward tourism, offering QSL & banner, asking for rpts, //better 11700; sked Mon-Fri (Hauser, Krueger, Camillo)
- 4853v YEMEN Sanaa; 1510 AA vocals, anmts //7265 (Bunn-Aust) 1930-2110v\* AA, tlk, Koran readings, ID, NA at s/off (McNeil, Mayer, Gionet) \*0258-0328 flute IS, M w/s/on anmts, chants; G (Krueger)
- 4855 BRAZIL R Clube do Para; 0258-0505+ PP, tlk, IDs, ads, lot of EE rock mx (Wolfish, Krueger, Cain)
- 4855 INDONESIA RRI, Palembang; 1141 Indo speech by M, short mx, RRI ID, lcl songs by W, 1159 Love Ambon, into nx 1200; G (McNeil)
- 4860 USSR Moscow; 2040-2055 M2 px //4930 w/class mx, RR interview; noted late 10/76 at 2230 w/RM to NA; P always (McNeil 11/24)
- 4860 VENEZUELA R Maracaibo; 0335-0400\* & 1042+, SS; F/G (5 rpters)
- 4865 UNID ; 2110-2130 class mx; PP tlk 2125; VP in RTTY; Brazil or Azores? (Mayer 11/21) # I haven't hrd Azrs since late May, and that it inactive; however Carol Feil hrd it 11/16 w/ID 2100; maybe it has irregular operation; yours snds like Azores, Al, pm
- 4865v PORTUGAL Lisboa; HS 2120-0004+ PP tlk, Moog mx, lotsa sound-effects, nx on hr; earshattering 40db over S9 on my stingy S-meter; weak audio & carrier cut several times; Portugal was on this freq 3,4/76 w/FS pxs; only 12/8 (McNeil)
- 4865 COLOMBIA LV del Cinaruco; \*0904 NA, SS tlk, ID, LA mx (Cain)
- 4865 BRAZIL R Soc. Feira Santana; 0850-0905 PP mx & tlk, QRM from Colombia s/on (Cain) 0020 PP tlk, full IDs 0100 & 0102 (Vokes)
- 4870 BENIN LV de la Rev; 0415-0700+ & 2100-2301\* FF, group-leader chanting, tlks, many IDs, hi-life mx; VG (9 rpters)
- 4870 ECUADOR R Rio Amazonas; \*1126 SS, NA, anmts, TCs, mx (Jones) 0045-0145 Andean mx, rel vocals, Indian lang tlk (Cain)
- 4871t INDONESIA RRI, Sorong; 1325 Indo nx //4719; 1340 not// when carried slow Indo pop tunes & anmts by M; no ID hrd (Roberts)
- 4875 INDONESIA RRI, Sorong; 1216-1315+ Indo tlk, lite lcl mx; on 11/24 was back on 4871 (Lineback 11/10, McNeil 11/22)
- 4875 COLOMBIA Ecos del Combeima; 0030-0640+ SS sports coverage, poss baseball; LA format, mx, ads, IDs; F (Earhart, Hammer)
- 4880 RSA SABC; 2030 Afrikaans px, pop mx, tlk, nx 2100; big sig but bad het by 2100 de 4881 (McNeil 11/27) NF
- 4880 VENEZUELA R Universitario; 2320-0430+ fast SS tlk, ID, into songs w/DJ giving title of songs, TCs (Wooten, Mahaffey, E'well, Filka)
- 4881v DOMINICAN REP R Comercial; 2030-0945+ request pxs, ads, TCs, Full IDs (Cain, Tannenwald, McNeil) /Erookwell)
- 4885 COLOMBIA Ondas del Meta; 0200-0420+ LA mx, IDs (Cain, Jones)
- 4889.6 ECUADOR R Centinela del Sur; 0359 after YV\* LA pop song, DJ w/ full ID & time they'd be on nxt day (6.45 lcl=1145 GMT), into NA and off 0406v\* (Hancock, McNeil)
- 4890 PNG Boroko; 0730-1300\* EE/Pidgin, gud pxing; G (14 rpters)
- 4890 SENEGAL Dakar; 2200-2300 Af mx, FF tlk, 0600-0730 same (4 rpters)
- 4890 HONDURAS R Lux; 1234 SS, musica ranchera (Jones) # Nice! pm
- 4890 VENEZUELA Rdif Ven.; 0000-0400\* usual LA px (Mooney, Gionet, E'well)
- 4895 USSR Ashkhabad; 1155 clas mx, 1200 5 pips, RR ID, nx (pr //well)
- 4895 BRAZIL R Bahia; 0915 PP mx, ads, tlk (Cain)
- 4900 NIGERIA NBC, Lagos; 2000-2215+ & \*0430 EE Nat'l Svc, pl nty of IDs; strong, poss ex-4990 (McNeil 12/15, Young) Is a nf. pm
- 4900.4 ECUADOR LV de Saquisili; 2324 yippy LA song, into Xmas ong, DJ w/Feliz Navidad de LV de Saquisili de Ecuador, TC and date, into another song; 2335 ck Juventud back on (McNeil 12/7)

Late notes from pm: 4932 NBC Benin City\*0430-0530+, nx 0500//4900, site presumed; 3345 Haiti 4VEH reactivated, hrd 1139 in FF; 4935v Asian still hrd, maybe Bangladesh, no IDs yet, tho.

Whew! This is the most typing I've done in a very long while. My index fingers are going to be sore for a long time, hi! Much good DX to be had, and I'm told conditions are supposed to be good around New Years Eve, so I hope you all got Cook, hi! Speaking of which, I finally got Cook 12/19/76....did I beat you, Dan?

73, pm (Pitt McNeil)

# log report *section* **B**

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4901 kHz - 6200 kHz

JANUARY, 1977

- 4900a NIGERIA Voice of Nigeria; 0500-0510 in EE w/ a Wake up Pgm. This may be the old Maiduguri outlet or part of the new shakeup. (Barto).
- 4902 SRI LANKA SLBC; Colombo, 0032+ w/ US & European pop mx, male announcer and mentions of Colombo. (Wootten 11/14).
- 4904.5 TCHAD RNT; Ndjamana, 2030-2215 in FF w/ Af. mx, Hi-Life mx, nx in FF and in lang. (Yajko, Schwartz, Roberts, Dalrymple). 0445-0545 in FF and in lang. w/ instrumentals a la Chinese xylophone (Mahaffey, Bogel)
- 4905 BRASIL R. Relogio; 2040+ in PP w/ pop mx, some EE vocals (Beal 11/6).
- 4908 KHMER REP. VOFUNK; 1440+ in Khmer w/ local mx and a W anor (Wootten). 1147-1157 in lang. w/ a W singing and flute mx (Smith).
- 4910v GUINEA RN; Conakry, 2150 in FF and pol. tlks (Schwartz). 0110 in FF (Gionet). 0246-0302 w/ local mx and chanting (Wolfish 11/10).
- 4911 ZAMBIA ZBS; 2000+ w/ local mx and singing to 2106\* (McNeil).
- 4914 KENYA VOK; noted at 1915 fade in w/ Swahili anmts, drum mx and singing. Signal usually equals with Ghana around 2000. Noted to 2015\* on weekdays and on Sundays (to 2115\* on Saturday). (McNeil).
- 4915 BRASIL R. Anhanguera; 0930-0955 in PP w/ US pop mx in EE (Cain 12/1).
- 4915 CHINA Nanning; 1133 in CC w/ singsong, Soviet QRM (Brookwell 11/8).
- 4915 COLOMBIA R. Guatapuri; 0115-0140 in SS w/ odd LA mx and several IDs. (DeLap 11/20). Has been on 4815 for a few weeks now. Sam.
- 4915 GHANA GBC; 2155-2305 in EE and in lang. w/ commentary, choir singing martial mx, rel. pgm., (Schwartz, Mahaffey, Zilmer). 0539-0700 in EE & in lang. w/ nx and rel. pgm., nx past 0700 (Poppin, Camillo).
- 4920 AUSTRALIA ABC; Brisbane, 0650-1210 in EE w/ nx, public affairs pgms, cmntry, sports and church services (Hywarren, Krueger, Fedor, Rojewski,
- 4920v ECUADOR R. Quito; 0350-0502 in SS w/ piano mx, marimba mx, Mooney). guitar mx, 0502\* w/ Indian Love Call. Good listening. (Miller, Filka,
- 4920 HONDURAS R. Progreso; 0200 in SS w/ nx and ads (Green). Beal).
- 4920 UKRAINE R. Kiev; 2035-2130\* 2035 in GG, 2123 in RR, GG usually runs to 2058 then into Czech w/ some RR speeches. At times they are in various Eastern European langs. Usually the first signal on the band (McNeil, Krueger, Schwartz).
- 4925 CHINA Harbin; 0930 in CC HS w/ sing song and EIR at 1000 (Brookwell).
- 4926 EQUATORIAL GUINEA Bata; 2120-2128\* in SS w/ Af. mx & ID (Miller 11/30) 0520-0530 in SS w/ local mx and ID, Fair. (Mayer 11/27).
- 4927.5 INDONESIA RRI Jambi; 1202+ in II w/ nx by a M (McNeil 11/17).
- 4930 USSR; 2057-2100+ w/ classical mx and nx in lang. Who? (Shingler 12/7)
- 4935v UNID; 1100-1315 fade out. Station carries heavy drum mx, wailing songs, on 12/2 at 1152 w/ M in non-tonal lang. past 1202 w/ no break for an ID. Indications say that it is not from the II or Malay area. Doubt Japan and mx doesn't fit Korea. Who? (McNeil).
- 4935 BRASIL R. Capixaba; 2200-2215 in PP w/ ID and sports pgm. (mayer).
- 4940 IVORY COAST RTVI; 2200 in FF w/ mx (Zilmer). \*0600-0630 in FF w/ mx, anthem and ID. (Ravenhorst, Schwartz, Nicholson).
- 4940 UKRAINE R. Kiev; 0415 w/ classical mx, 2111 in RR w/ singing (McNeil).
- 4940 USSR R. Yakutsk; 1235-1245\* in RR w/ anthem. (Barto 12/10).
- 4940 VENEZUELA R. Yaracuy; \*0957-1100 in SS w/ anthem, ID, LA mx, //1090. 1100 w/ nx and ads. (brookwell, Tannewald, Cain).
- 4945 BRASIL Rdf. Pocos de Caldas; 0835-0845 w/ soft PP vocals (Cain 12/3).
- 4945 COLOMBIA R. Colosal; 0115-0140 in SS w/ ID's which sounded like Radio Tul, at 0135 level increased and ID's sounded like the regular Radio Colosal. (Program relay?) (Mahaffey 10/4). 0415-0435 in SS w/ trumpet mx. Off at 0419 and back on at 0428. (Earhart). 0700-0800 in SS w/ mx and a Black Flag ad. They must have some big ones down there (Filka).
- 4946 MOCAMBIQUE Nampula; 1713 in lang. w/ Af. & PP mx, ID (Junqua 11/24).
- 4948v 1958-2030 in lang. and in PP w/ chorus mx. Past listed 2015\* (McNeil).
- BRASIL A Voz de Sao Francisco; 2147-2200 in PP w/ excited tlks by a

- man, ID's and then a sports pgm. (Mayer 12/15).
- 4950 MONGOLIA RUB; 1432-1500\* in Mongolian w/ tlks & little mx(Junqua).
- 4950 SARAWAK RMS; 1400-1500 in EE w/ pgms. on local dialects and a pgm. entitled "Our Family Doctor"(Glazzy 11/24, Godfrey 11/30).
- 4950 VENEZUELA R. Mundial; 0048-0100 in EE w/ ads (Davenport 11/10). 0105 in SS w/ lottery ads, tc's and ID's. (Tannewald 11/26).5050??
- 4955 COLOMBIA R. National; 0725 in SS w/ tlks. Fair. (Dalrymple).
- 4955t PERU R. Cultural Amauta; 0237 with excited DJ in SS, then a short break, tlk by 2 men, station promo, tentative ID, 0250 flute mx, 0255 pulled the plug w/ no NA. Poor level under ute. (McNeil 11/25)
- 4960 DOMINICAN REP. R. Antillas; 0045-0100 in SS w/ nx & ID(Hancock).
- 4960 VENEZUELA R. Sucre; 0352 in SS w/ ID and ads(Yajko 11/28). 0911-0935 in SS w/ LA mx, tc's and ads (Cain 12/3, Tannewald 11/24).
- 4965 COLOMBIA R. Santa Fe; 0508-0700 in SS w/ lively LA mx(Bogel,Luce).
- 4970 SABAH R. Malaysia; 1305+ w/ Island mx. (Vokes 11/12). Lang?
- 4970 VENEZUELA R. Rumbos; 0620-0925 in SS w/ many ads, LA and US pops. (Hoffmann,Grenier). 0145 in SS w/ ads, anmts, tlks (Green). 0330-0410\* in SS w/ usual pgm. (Poppin,Imbert,Mooney). 0415-0430 in SS w/ LA mx, ads of the singing variety (Earhart 11/17).
- 4972.5 CAMEROON R. Yaounde; 0500-0530 in EE w/ local nx, ID's, sometimes back to FF after 0511 EE nx. EE has been known to run from 0500-0545 regardless of schedule. (Nicholson,Mayer,Schwartz,Nebron).
- 4980 GHANA GBC; 2130+ in EE w/ a play (Gionet). 0610-0626 in EE w/ nx, ID's, tc's, and telephone conversation. (Schwartz,Poppin).
- 4980 SWAZILAND Swazi Music Radio; 0359-0542 in EE and in vern. w/ Af. and US pops along with some chanting (Nicholson,Lineback). 0400 w/ Hindi tlks, ads for a Durban movie theater. (Godfrey). This was reported as Radio Toolu. Actually SMR carries the ID of Radio Truro on the Indian pgm. and on their breakfast show. Sam.
- 4980 VENEZUELA Ecos del Torbes; 0130-0401\* in SS w/ LA mx, nx, ads and ID's(Poppin,Mooney,Davenport,Tannewald).\*1000 in SS w/ anthem and ID followed by LA mx. (Cain).
- 4985 BRASIL R. Brasil Central; 0412-0425 in PP w/ mx, several ID's, chorus type mx.(Earhart,Imbert,Poppin).
- 4985 SULAWESI RRI Ujung Pandang; 1135-1200 in II w/ vocals.Fair.(Cain).
- 4990 ARMENIA R. Yerevan; 0403+ in RR w/ nx and poor sign. Seems // to 4930 but isn't sked to be. (McNeil 11/28).
- 4990 NIGERIA NBC; Lagos, 0520-0600 in EE w/ request pgm, ads for Pepsi-dent toothpaste, Joy soap, insect spray, nx at 0600(Butterfield).
- 4990 VENEZUELA R. Barquisimeto; 1045 in SS w/ tc and ID(Tannewald).
- 0200-0240 in SS w/ LA and US mx, fotebol at times(Trostek,Dvnport).
- 4995 PERU R. Andina; 0305 in SS w/ Andean mx (Klassman 11/12).
- 4995t VIETNAM VOV; Hanoi, 1243+ in lang. heavy W/W QRM. (Shingler 11/13).
- 5000a AZERBAIJAN SSR R. Baku; 0550-0600 in EE w/ ID as "This is Radio Azerbaijan and transmitter". New/Harmonic???(Poppin 11/30).
- 5000 USA W/W; 0040 w/ ID. (Alintuck).
- 5005.5 BOLIVIA R. Universo; 2248+ in SS w/ pop mx and excited DJ tlks, ID and promo. Riberalta 4696.5,Mamore 4602.8,Paititi 4424.5 also in this time slot. (McNeil 11/24).
- 5007 NEPAL R. Nepal; 1930-2000\* in EE w/ ID by a woman after each song as "This is Radio Nepal" and as "This is a test transmission of Radio Nepal". (Wooten 11/10).
- 5010 CAMEROON R. Garoua; 2115-2203\* v. in lang. and AA w/ local mx, drum and flutes, tam-tam mx, nx and KA at \*(Butterfield,Miller,Schulman,Lavsevich). 0608 in FF w/ nx and ID (Schwartz 11/4).
- 5010 COLOMBIA R. Surcolumbiana; 0210+ in SS w/ LA mx & ads(Miller,Beal).
- 5010 PERU R. Eco; 0200-0433 in SS w/ singing tc's, ID's with echo, ads, comls for 'Cerveza Banderina', pgm. name 'Disco Exito' followed by a request pgm. birthdays, weddings, etc, some classical mx, (Cain, Alvi,Miller,Wolfish,Jones,Roberts,Hancock,Ravenhorst).
- 5015 ASIATIC RUSSIA R. Vladivostok; 1131-1201 in RR w/ classical piano mx, IS at 1159, pips at 1200 then into nx(Earhart,Cain).1313-1349 in RR w/ a drama in local lang. Excellent level(Poppin).0640 in RR w/ classical mx. (Grenier 12/8). Be careful w/ time on these two.
- 5015 EUROPEAN RUSSIA R. Arkhangelsk;1205 w/ tlk in RR, classical mx, over and under Vladivostok which was carrying a different pgm. (McNeil 11/22). 0430 in RR w/ instrumentals (Vokes 11/13).
- 5015 BRASIL R. Cultura da Cuaiba; 0200+ in PP w/ w vocalist and big band sound (Beal 12/1).
- 5015 BRASIL R. Pionera de Teresina; 0100 in PP w/ LA mx and ID(Vokes).
- 5020 COLOMBIA Ecos del Atrato; 1124+ in SS w/ LA mx (Jones 12/2).

- 5020 NIGER ORTN; Niamey, 2025-2141 in FF and in vern., flute and drum mx, id and nx at 2100. (McNeil, Miller, Mayer, Schwartz).
- 5025 BRASIL Unid; 0425-0430\* in PP w/ light and romantic vocals. Station used a three syllable ID. (Roberts 11/9). Borborema??
- 5025 ECUADOR R. Splendit; 0230 w/ local mx. Good. (Jones 11/29). 0435-0457\* w/ LA pops. (Cain 12/3).
- 5026 UGANDA UBC; 2000 fade in in EE, light Af. mx, European type cuts, at 2030 w/ TC and soft YL vocals, EE nx at 2100, 2106\* (McNeil 11/2047 w/ Af. chorus, poor under ute. (Shingler 11/21).
- 5030 KAZAKH R. Alma Ata; 1318-1331 in RR and in CC or KK? at 1331, IS at 1328 was "Broad is My Country" (Poppin 11/28). See 5035.
- 5030 VENEZUELA R. Reloj Contiente; 0429-0444 in SS w/ ID's and LA mx. (Poppin). 0220-0340 w/ ID, chimes, ads. (Green, Grenier). 0910-1050 in SS w/ tlks, tc's, mx. (Beal, Dalrymple). 2300-2330 w/ tlks (Cain).
- 5035 KAZAKH R. Alma Ata; 1120-1200 in lang. w/ orch. mx, then W in lang. some days 1200\* other days past 1200 (McNeil, Cain 11/12).
- 5035 PERU Unid; 0246 w/ a cappella song, flute mx, fast SS tlks, South Peru songs, TC's, still in at 0402. R. Ayaviri? (McNeil 11/20). I heard R. Ilo on 5037 last year. Possibly reactivated? Sam.
- 5035.6 SARAWAK RMS; 1243 in lang. w/ tlks by M & W (McNeil 11/22).
- 5038 CEN. AFR. REP. RNC; 2120-2305\* in FF w/ Af. mx. (Schwartz, Lavsevich 2235-2258\* in FF w/ Louis Armstrong mx, two NA's at \*(Hammer). 0500-0640 in FF w/ military speech, Hi-Life mx, TC, (Roberts, Beal, Wolfish
- 5039 SUDAN R. Omdurman; 1635-1645 w/ EE nx (Wootten 11/21). Lineback 0359-0441 in AA w/ vocals (Hancock, Nicholson). 2130-2200\*v. in AA w/ chanting, Koran readings on weekdays, daily 10 minute tlk at 2045, news?, \* w/ NA (McNeil, Schulman).
- 5040 BURMA BBS; 1153-1158 in BB w/ instrumental mx (Cain 11/12).
- 5040 COLOMBIA R. Cinco; 0958 in SS w/ "Somos R. Cinco" a wake up pgm. Good level. (Jones). 2305-2320 LA mx, ID's (Lausevich). 0540 (Hammer).
- 5040 GEORGIA R. Tbilisi; 1920-2105\*v. in RR w/ pop mx, gong at 2100, nx at 2000, classical and operatic vocals, off w/ RR NA. (McNeil, Oster-
- 5040 PERU R. Libertad de Junin; 0630-0718\* in SS w/ local mx, man ID's, TC's, Fair sigs. (Butterfield 9/16).
- 5040 VENEZUELA R. Maturin; 2229-2237 in SS w/ tlks and mx pgm. (Wolfish)
- 5045 BRASIL Rdf. Pres. Prudente; 2300-0300\*v. carrier on at 0748 then opening at 0800. The OC for Brasil is rock steady w/ little fading, easy to separate from a potential fluttery carrier of Cook (McNeil).
- 5045 COOK ISLANDS R. Cook Islands; 0750-0808 w/ positive R. Australia ID at 0800, pop mx show. (Smith 11/20).
- 5046 INDONESIA RRI Yogyakarta; 1230 in II w/ W in II (Cain 11/12).
- 5047 TOGO Rdf. Togo; 2130-2300\* in FF w/ speeches and Af. mx. 0549-0740 in FF w/ Parisian mx and tlks. (13 reporters).
- 5050v TANZANIA RT; 1605+ w/ nx in Swahili (Wootten 11/8). 2005-2015\* in Swahili w/ nx, clear ID, NA at \* (McNeil 11/28).
- 5052 SINGAPORE R. Singapore; 1400+ in EE w/ guitar mx and UN perspective // 11940 (Godfrey 11/23). 1200-1244 in EE w/ piano mx, // 5010 (Cain).
- 5055t PERU R. Onda Imperial; 1102+ in SS w/ easy guitar mx, echo chamber type tlks, ads, fading fast (McNeil 11/23).
- 5057v ALBANIA R. Gjirokaster; 1916 w/ YL in lang. Poor level. (McNeil). 1546-1600 in Albanian w/ classical mx, ID as 'Su flet Tirane' (Cosie 0505-0515 w/ nx and ID's (Lineback 11/15).
- 5060 ECUADOR R. Nac. Progreso; 1100-1110 in SS w/ local mx. (Beal, Cain) 0125-0150 in SS w/ non-stop Ecuadorian instrumentals (Krueger 11/14)
- 5060 YEMEN Aden; 1910+ in AA // 7190 (McNeil 11/21). Early!!! 2045-2130 in AA w/ rock and soul mx(?) and AA mx (Shingler 12/5, Mayer 11/21).
- 5065 ASIATIC RUSSIA Petrozavodsk; 1142+ in RR w/ singing by a M & W, classical mx w/ an opera, poor and fluttery (McNeil 11/25).
- 5075 COLOMBIA R. Sutatenza; 0929-1015 in SS w/ LA DJ pgm, 'Musica Campesina', (Mahaffey, Brookwell). 0135-0400\* in SS w/ LA mx, ads, and semi-classical mx. (Green, Imbert, Klassman, Alder, Schwartz).
- 5075 CHINA CPBS-1; 0935-1145+ in CC w/ tlks and mx (Brookwell, McNeil).
- 5260 KAZAKH R. Alma Ata; 1215-1232 in RR w/ singing by a W, short tlks, IS at 1230 (Earhart 12/5).
- 5870 CHINA R. Peking; 2210 w/ M & W in CC (Hywarren).
- 5883v ISREAL IBA; 0445+ w/ classical mx, // 7460 (Zilmer, MacKay). 0340+ in Yiddish, \*0345 (Richardson, Nebron). 0450-0505 in Hebrew w/ nx and ads (Schwartz, Wolfish). 0421-0607 in Hebrew w/ symphony mx, coke ads very strong (Poppin).
- 5885 INDONESIA RRI Pakanbaru; 1028 in II w/ Tin Pan mx, nasal female vocalist with horrible accompaniment. (Brookwell)

- 5900 ISREAL IBA; \*0500-0530 in EE w/ nx and editorial, wx and into FF at 0515 (7 reporters). \*2200-2245 in EE w/ same format. Into FF at 2230, 2300\* (5 reporters). At 2230 // 7412,9435,9815. \*2000-2033 in EE then into FF at 2030, // 7412.5,9425 could not hear 9009 and 9815 (3 reporters).
- 5920 UKRANIAN SSR R. Kiev; 1930-2000 in EE w/ nx and cmntry, fair(Gionet)
- 5930 CZECHOSLOVAKIA R. Prague; \*0200 in SS w/ ID and nx(Schwartz). \*0300-0315 in EE w/ ID, nx, "Science and Technology"(Schipellitti). \*0330-0357\* in EE w/ "Mailbag" (Malone). 0343 (Jones). 0900-1000 R. Moscow relay announced as "Gavorit Praga" w/ Tikhy Okean IS into M & W w/ RR songs. Fade out or off at 1000. Station returned and IDed as Tbilisi. Unid. also on 5935. Who? (Brookwell 11/22).
- 5930 GEORGIA R. Tbilisi; ID at 1030 into lang. w/ a public meeting w/ applause, shouting and cheers(Brookwell 11/22).
- 5935 UNID; 0705-0731 in RR w/ M & W tlks. Peking listed but no RR brdcast Any help? (Edelstein, 11/28).
- 5940 USSR R. Moscow; 2250 in EE w/ ID and nx(Hoffman). 0115-0125 in EE w/ "What is Communism".(Beal,Beaudoin,Anderson).0300-0347 in EE w/ nx and "Mailbag".(Aston,Jones,Malone).
- 5950 GUYANA GBS; 2155-2200\* in EE w/ ID and ads, mentioned 3290(Csterman)
- 5950 ISREAL IBA; 0500-0510 in EE w/ nx (Wolfish 11/13).
- 5952a PERU R. Arequipa; 1011+ in SS w/ ID and LA mx (Jones 12/8).
- 5954 COSTA RICA R. Casino; 0422-0555 in EE w/ pop mx, rel. pgm., coke ads, country mx.(Green,Godfrey,Nicholson,Imbert,Roberts).
- 5955 USA VOA Dixon; 0630+ in EE w/ pop mx pgm. (Edelstein).
- 5960 ALBANIA R. Tirana; 0456 in EE w/ usual anti-American pgm.(Hauser).
- 5960 ANTIGUA DW; \*0530-0550\* in EE w/ ID, nx and cmntry(Jones,Imbert,BP) Hoffman; your 0550\* DW is Antigua not FRG. Sam.
- 5960 CANADA RC1; 2300-0100 in EE w/ "Old Time Radio" pgm.(Malone,Ander-
- 5962 COLOMBIA La Voz de los Centauros; 0632 in SS w/ ID, PC's and son) LA mx, back on 6190 at 1040@ (Jones).
- 5965 BRASIL R. Guaba; 2313-2328 in PP w/ piano tunes(Krueger 11/13).
- 5965 ENGLAND BBC; \*0030-0230\* in Bengali to 0050 then into EE. "Radio Newsreel" pgm was aired. No sked on this one. (Schipellitti,Earhart)
- 5965 HUNGARY R. Budapest; \*2130-2140 in EE w/ nx and cmntry(Layer).
- 5965 SWITZERLAND SBC; 0145 in EE w/ world nx then "Sunday" pgm(Swanson)
- 5975 CHINA R. Peking; 0806 in CC w/ M & W and workers pgm.(Brookwell).
- 5975 GREAT BRITAIN BBC; 0345 in EE w/ nx(Green).0030-0115 in EE w/ Radio Play(Malone). 2005 in EE w/ nx (Ware).
- 5980 MEXICO R. Mexico; 0100 in SS w/ ID (Bishop 11/30).
- 5980 PERU R. Panamerica; 0432+ in SS w/ pgm. tlks, mx, ads.(Beal 12/1).
- 5980 SOUTH AFRICA R. RSA; 0315-0405 in EE w/ nx, economic reviews and ID's(Glazzy,Swanson). \*0257 in EE w/ ID's. Signal must arrive via Indian Ocean/West Australian path. Unusual (Willis-Australia).
- 5980 UKRAINIAN SSR R. Kiev; \*0030 in EE w/ nx, mx and "Mailbag"(Fedor).
- 5980 USA KGEI; 0715-1035 in EE w/ ID's, nx, rel. mx, Station ID's as Voice of Friendship or as the Golden Gate of Friendship(Glazzy,Ear-
- 5985 UNID; 0605-0700 possibly in RR w/ old US pops/jazz. At 0630 hart) the station went into classical mx. KGEI/QRM at 0700. Who?(Brookwell
- 5990 ASIATIC RUSSIA R. Khabarovsk; 0733 in RR w/ Mayak pgm.(Brookwell).
- 5990 RUMANIA R. Bucharest; 0130 in EE w/ nx, comment and "Mailbag" pgm. (Hoffman,Zilmer). 0413 in EE(Cain). 2108 in EE w/ nx by a W - very objective reporting for an East European. Best Euro on 49m(Hauser).
- 5995 AUSTRALIA R. Australia; 1035-1111 in EE w/ ID, nx, mx(Earhart).
- 5995 MALI R. Mali; 2107-2301 in FF w/ Af. mx,cmntry, nx Schipellitti) at 2240(Gionet,Krueger,Wolfish). 0736 w/ nasal singing and drums, Khabarovsk/QRM. marching band IS.(Brookwell 11/30).
- 5995 VATICAN R. Vatican; \*0100-0115\* in EE w/ rel. tlks, ID, //6015. (Clark,Ware,George,Malone,Hoffman).
- 6000 BRAZIL R. Inconfidencia; 0845 in PP w/ LA mx(Cain 12/1). 2300-0020 in PP w/ ID's, ads, US pops, ID as "Inconfidencia e musica por toda a noite". (Roberts 11/6, Krueger 11/12). (Beal)
- 6000 CANADA RC1; 0100-0158\* in EE w/ nx, mx(Norby,Hoffman)0215 w/ sports
- 6000 CHINA Hangzhou; 0730-0745 in CC w/ chanting type singing(Cain 12/1)
- 6000 COLOMBIA R. Super de Medellin; 1127+ in SS w/ nx, ID's and a comls. for 'El Banco de Colombia' (Jones 11/15).
- 6000 EUROPEAN RUSSIA R. Moscow; Zhigulevsk, 0425 in RR w/ musical pgm. ID at 0442. VOA/5995 QRM. (Wootten 11/3).
- 6000 FED. REP. GERMANY R. Liberty; 2030 w/ ID in East European lang. Listed in THFBS D-76 as Holzkirchen. (BP 11/13). Sorry, who's BP?
- 6000 HONDURAS R. Swan; 0800 in SS w/ LA mx, ID(Brookwell 12/1).See 6015.

- 6000 HUNGARY R. Budapest; \*0200-0330 in EE w/ nx and cmntry (Malone, Ware, 6005  
 6005 ASCENSION BBC; 0330-0338 in EE w/ nx, Fair (Alder 11/19). Schwartz)  
 6005 AUSTRALIA R. Australia; 0800 in EE w/ nx (Luca 11/19).  
 6005 CANADA CFCX; 2115-2350 w/ stocks, sports, nx pop mx, (Nebron, Schipe-  
 lli) 1215-1500 w/ same format (Gionet, Beal, Overcamp).  
 6005 FED. REP. GERMANY RIAS; 0322-0332 in GG w/ ID. BBC was off and Radio  
 Reloj faded (Bishop 11/5). 0445 in GG w/ mx, election results (Wootten  
 6006 COSTA RICA R. Reloj; 0727-0800 in SS w/ mx, nx, lottery results,  
 (Brookwell, Gdelstein, Luca). 1119+ in SS w/ mx, ID (Schipelliti).  
 6010nf ANTIGUA BBC; 0240 in EE/SS w/ multi-lingual pgm. //6055, 9765 (Beal).  
 6010 FED. REP. GERMANY DW; \*0130-0150\* in EE w/ nx and current affairs  
 pgm. //6040 Antigua (Hoffman, Anderson). 0535 in EE w/ cmntry (Woltman)  
 6010 ITALY RAI; 2230-2250 in Italian w/ ID, mx, market reports (Schwartz,  
 Schipelliti). 0102+ in EE w/ nx pgm. (Ware, Yajko).  
 6010 MALAYSIA BBC Tebrau; \*2200 in JJ w/ ID then into nx (Shingler 11/12).  
 6010 USA UNR Dixon; 1025-1035 in EE/CC (Smith), 2005 in EE/JJ (Who?).  
 6010 VENEZUELA R. Los Andes; \*1030 in SS w/ NA, ID, light mx. (Ware 11/29)  
 6015 AUSTRIA ORF; 0505-0530 in GG w/ ID, nx and folk mx. //17840 (Willis,  
 6015 BRASIL R. Clube de Pernambuco; 0810 in PP w/ mx, ads (Cain) Schwartz)  
 6015 NEW ZEALAND RNZ; to 1140\* in EE w/ ID, bellbird IS (Jones 11/30).  
 6015 USA Dixon (BBC Relay); 0211 in SS w/ ID and nx (Rojewski).  
 6015 VATICAN R. Vatican; 0100-0115 in EE //5995, rel. pgm. (Zilmer 11/21).  
 6020 UKRAIAN SSR R. Kiev; \*1930 in EE w/ I and cmntry. (Grow 11/20).  
 6020 USA VOA; 0425-0433 in RR w/ cmntry and nx (Edelstein 11/26).  
 6020 USSR R. Moscow (Site?); \*2000 in EE w/ IS, ID, //6010. R. Nederland  
 QRM. (Ware 11/29). (Cain 11/27).  
 6025 PARAGUAY R. Nacional; 0815-0850 in SS w/ ID's and classical mx.  
 6025 PORTUGAL RP; \*0230-0300 in EE w/ nx and good mx (Malone, Davenport,  
 Bernstein). 0508-0515 in EE w/ nx, tlk and cmntry (Bogel, Woltman).  
 0449 in PP w/ mx pgm. (Wootten 11/3).  
 6025 UZBEK SSR R. Tashkent; \*1200-1230\* in EE w/ nx and cmntry. //9600,  
 9540, 5970. (Ware, Gearhart, Osterman, Mooney).  
 6030 LIBERIA VOA Monrovia; 0600-0615 in EE w/ "African Safari" (Hoffman).  
 6030 PHILIPPINES DZH6; 1200-1225 in EE w/ hymns, NHK IS at 1225. Heard  
 DZAS ID at 1200 on 12/10 (Overcamp).  
 6030 UGANDA UBC; 1500-1510 in EE w/ nx, cmntry and hymns, over FEBC (Bunn).  
 6030 USA VOA; 2255 in EE w/ good mx. //6040, 7200 (Shridmarani). (Hoffman).  
 6030 USSR R. Moscow; 0630 in EE w/ ID, mx, read letters. //6070, 6150, 6185.  
 6035 BRASIL R. Globo; 0105 in PP w/ sports cmntry (Yajko 11/26).  
 6035 LIBERIA VOA Monrovia; 0300-0650 in EE w/ "African Safari" pgm. //5995  
 (Grow, Edelstein, Beal, Conover).  
 6035 USSR (Khabarovsk?); 1237 in RR w/ RR pop mx. //6080. (Jones 11/24).  
 6040 ANTIGUA DW; \*0130-0150\* in EE w/ IS, ID, nx, big band mx. // 6010,  
 6075, 6100, 6185, 9545. (Cooper, Hoffman, Ware, Schwartz, Beal).  
 6040 GERMAN DEM. REP. RBI; 0040 in SS w/ cmntry. (Beal 11/9).  
 6040 TAIWAN BCC Tamsui; 1430 in CC w/ songs (Cosier 11/27). Is Dubai active.  
 6045 AUSTRALIA RA; 0800-1300 in EE w/ world nx, pops, rel. pgm., DX pgm.,  
 // 5995, 9580, 6005. (Zilmer, Beal, Tuchscher, Norby, Mooney, Rojewski).  
 6045 BRASIL R. Clube Paranaense; 2258 in PP w/ fast paced tlks (Ware 12/1)  
 6045 FRANCE RFI Allouis; 0615-0630\* in FF w/ ID and cmntry. (Hoffman).  
 6045 SWEDEN RS; 2300-0100 in EE w/ nx and "Panorama" (Anderson, Malone).  
 0246-0250 in FF w/ SCDX pgm., IS, ID. (Schipelliti 10/27).  
 6045 SWITZERLAND SBC; 0430-0500 in EE w/ polka mx, nx, "DX Merry Go  
 Round" (Malone, Beal, Grenier). 0516-0530 in GG/Italian. (Poppin).  
 6050 ECUADOR HCJB; 0323-0332 in SS w/ local nx, tlks (Edelstein).  
 6050 NIGERIA R. Oyo; (x-WNRS) 2000 w/ EE nx. Poor. (Barto).  
 6055nf ANTIGUA BBC; 0150 in SS w/ mx pgm. //9765 (Beal).  
 6055 GREAT BRITAIN BBC; 0315-0322 in SS w/ cmntry (Edelstein).  
 6055 JAPAN NSB; 0815 in JJ w/ tlks. (Rojewski 12/5).  
 6055t RWANDA R. Kigali; 2053+ in AA w/ chanting (shingler).  
 6055 USA VOA/UNR; 0500+ in EE/Hebrew and 0537+ in FF (Edelstein, Aston).  
 6060 JAPAN NSB; 0900 in JJ w/ ocean waves, seagull cry, drums (Brookwell).  
 6060 CUBA RHC; 0540+ in SS, QRM via VOA/UNR on 6055 (Edelstein) (See 6055)  
 6065nf CANADA RCI/CBC NS; 1225+ in EE w/ nx and Arctic pgm. (Beal, Jones).  
 0600-0605\* in EE w/ CBC nx and NA (Luca).  
 6065 COLOMBIA R. Super; 0600 in SS w/ lively LA mx (Mahaffey). (Bernstein)  
 6065 SPAIN RTVE; 0100-0400 in EE w/ mx, nx local events pgm. (Jones, Altman)  
 6065 SWEDEN RS; 1830-1900 in EE and 2100+ in EE w/ "Panorama (Edelstein)  
 Program" via Karlsborg. (Schipelliti, Mayer).  
 6070 BULGARIA R. Sofia; 2130+ in EE w/ nx (Mooney, Mayer). 1940+ in EE w/  
 cmntry over CFRX (MacKay, Ware).

- 6070 USSR R. Moscow; 0710 in EE, //6185, nx(Beal) 0205 in EE w/ nx(Rich-  
6070 VENEZUELA R. San Sebastian; 0100+ in SS w/ ID, ads(Yajko). ardsen).  
6075 COLOMBIA R. Sutatenza; 0110-0125 in SS w/ local nx and tc(Roberts).  
6075 FED. REP. GERMANY DW; \*0130+ in EE w/ world nx, 0300 in SS(Edelstein,  
6075 HONDURAS La Voz del Junco; 1255 in SS w/ tlk, mx(Jones) Swanson).  
6075 ITALY RAI; 0435 in EE w/ nx (Osterman 11/23). Beaudoin, Ware).  
6080 MALTA IBRA-R. Mediterrean; 2040-2115\* in EE w/ hymns, rel. mx(Grow,  
6082 PERU R. Nacional; 0800-1000 in SS w/ LA mx, 0530 TC(Roberts, Ware).  
6085 BELGIUM BRT; 0015-0045\* in EE w/ No. Amer. pgm.(Zilmer, Earhart, Boomer  
6085 BRASIL R. Jornal do Comercio; 2210-2225 in PP w/ soccer match(Krueger  
6085 BULGARIA R. Sofia; \*0500 in Bulgarian, //6070, ID, nx(Wootten).stein)  
6085 FED. REP. GERMANY DW; 0030 in EE, nx; 0500 in GG and 1400(Norby, Edel-  
6085 SPAIN RTVE; 0030-0045 in SS w/ nx, tlks, (Earhart).  
6086 TAIWAN BOC; 1300 in CC lang. pgm. (Willis).  
6090 ARGENTINA R. Belgrano; 0815-0850 in SS w/ LA mx(Cain 11/15).  
6090 LUXEMBOURG RL; 2330-0100 in EE w/ pop mx, 2247 in GG.(6 reporters).  
6090 NIGERIA RTV Kaduna; 0513 in (EE?), w/ local mx (Wootten). (Glazzy).  
6090 SEYCHELLES FEBA; 0100 w/ ID in EE "This is the FEBA Seychelles"  
6095 ECUADOR HCJB; 0115-0130 and 0640-0700\* in EE w/ rel. pgm.(Hoffman).  
6095 PHILIPPINES VOA; 2207+ w/ EE nx (Shingler). Anderson).  
6100 MALTA DW; \*0130-0150\* in EE w/ IS, ID and nx(Malone, Zilmer, Green,  
6100 MOROCCO RTM; 1845 in AA, 2246 w/ AA vocals.(Hywarren, Bishop).  
6100 SPAIN RTVE; \*2030-2040 in EE w/ IS, ID. Noblejas site.(Schipelliti).  
6100 VENEZUELA YVTO; time signal w/ ID's in SS(Aston, Edelstein, Green).  
6100 YUGOSLAVIA R. Beograd; 2005 in EE w/ nx by M & W (Osterman).  
6105 FINLAND RF; 1400 in EE w/ FinDX pgm. and mx (Gercken 11/23).  
6105 MEXICO XEQM Su Pantera; 1147 in SS w/ local mx, ID's (Yajko).  
6105 NEW ZEALAND RNZ; 0600 w/ EE nx (Dalrymple).  
6110 PHILIPPINES VOA Tinang; 1140 in EE w/ interview pgm. (Ware). Cain).  
6115 COLOMBIA La Voz de Llano; 0010+, 0340+, 1100+ in SS, ads, TC's(Roberts,  
6115 PAKISTAN RP; 1333 w/ sub-cont. mx(Shingler, 11/13).  
6120 ARGENTINA R. El Mundo; 0745-0800 in SS w/ EE pop mx, ID (Cain 11/15).  
6130 GHANA GBC; 2125-2230 in EE w/ nx, rel. tlks, drums(Camillo, Mooney).  
6130 SAUDI ARABIA BSKSA Riyadh; 2050 in AA w/ AA play(Padula). Thats BPI  
6135 BRASIL R. TV Gaucha; 0853-0901 in PP w/ ID, mx, applause(Edelstein).  
6135 BULGARIA R. Sofia; \*1900 in AA, from RFL. Heesy (Padula).  
6135 SOCIETY IS. FR3 Tahiti; 0510-0515 in Tahitian w/ local mx(Glazzy).  
6142.4 INDIA AIR; 1500 in Hindi w/ popular mx, //10335.(Willis).  
6145 ALGERIA RTVA; 0616-0735 in AA w/ local mx and Koran reading(McNeil).  
6145 ANTIGUA DW; \*1000-1035\* in PP w/ EE ID, nx (Jones, Ware).  
6145 NIGERIA VON Calabar; 0615+ in FF/EE w/ Af. mx, ID's. (Hall). Jones).  
6150 COLOMBIA La Voz del Huila; 0040, 0800, 1147+ in SS w/ LA mx(Roberts,  
6150 COSTA RICA R. Centroamerica; (x-R. Atenea) 0504\* in SS (Tuchscher).  
6155 AUSTRIA ORF; \*0130 in EE w/ ID, nx and interviews(Ware). Rojewski).  
6155 JAPAN FEN; 1455 in EE w/ nx(Miller). 0700 in EE w/ nx, wx(Hoffman,  
6155 ROMANIA R. Bucharest; 0135 in EE w/ mx and "Mailbag" pgm. (Bernstein)  
6160 COLOMBIA Emisora Nueva Granada; 1115-1135 in SS w/ nx (Earhart).  
6170 COLOMBIA La Voz de la Selva; 0920 in SS w/ LA mx and nx(Tannewold).  
6170 EGYPT R. Cairo; 0800 w/ nx in AA (Brookwell).  
6170 MOROCCO RTVM; 1940 in AA w/ vocals //6100 (Butterfield 10/5). man).  
6175 ANTIGUA BBC; 0418-0730\* in EE w/ nx, mx and cmntry(Cain, Imbert, Hoff-  
6175 BRASIL R. Guarani; 0030-0040 in PP w/ pop mx, ID's(Krueger).  
6180m LIBYA PRB; 0020-0050 in AA w/ continuous mx. (Earhart). Jones).  
6180 GUATEMALA R. Nacional; 0300 in SS w/ marimba mx, 1415 in SS (Roberts,  
6185 BRASIL R. Banderiantes; 0813-0859 in PP w/ LA mx, //9645(Edelstein).  
6185 LIBYA PRB; 0606-0622 in AA w/ chanting, 2243 in AA(Cain, Hywarren).  
6185 MALTA R. Vox Fidei; \*0600-0630\* in FF w/ rel. tlks and mx on Sat-  
urdays. Addr: Postfach 8040, Zurich, Switzerland(Bunn 11/6). vich).  
6185 POLAND Polska Radio; 0205-0230 in EE/SS w/ nx and editorials(Lause-  
6190 COLOMBIA La Voz de los Centauros; 1000 in SS w/ "Musica de Colombia"  
6190 NETH. ANTILLES TWR; 0431-0440 in Serbo-Croat.(Schipelliti). (Ware).  
6195 ANTIGUA BBC; \*1100 in EE w/ nx(Schipelliti) in EE at 2115\*(Butter-  
field). \*1955-2015 in EE w/ "Letterbox" (Lausevich, Bishop).  
6195 CHILE R. Nacional de Chile; 2105-2140 in EE w/ nx (Lausevich). 0906-  
0915 in SS w/ LA vocals, ID's (Edelstein).  
6200 ALBANIA R. Tirana; 0230-0400 in EE w/ nx, cmntry, mx(Malone, Green).

As you can tell by the looks of this page there was some condensing of your reports. I'm very sorry if we had to leave some out but there was absolutely no way of getting them in this section. There were 71 reports that were not used. You fellas are doing a great job of re-reporting. This DX season has been one of the best in recent years.

# log report *section* **C**

OM GAVARAS, EDITOR  
6920 17th Avenue North  
ayzata, Minnesota 55391

6201 kHz - 11700 kHz

JANUARY, 1977

- 205nf USSR R. Moscow; 1500 Vietnamese pgm (Willis-Australia).  
 210 PAKISTAN R. Pakistan; 2120-2145\* EE nx, US rock mx (Mayer 12/5).  
 225 CHINA R. Peking; 1320 CC political talk by man, mx, tlk by woman (Bryan 12/1).  
 251 KOREA (NORTH) KCBS; 0837 KK excited M&W talk HS, violin, opera & symphony mx.  
 Very highbrow //6400. IS, TC (not regular service). Strong signal (Brookwell 11/24)  
 290 CHINA R. Peking; 0927 CC talk (Brookwell). 1200-1245 EE nx//9470 (Zilmer, Lineback).  
 320 CHINA R. Peking; 1323 language talk by a man (Bryan 12/1).  
 400 KOREA (NORTH) KCBS; KK HS w/M&W talk //6251 0917 (Brookwell 11/24).  
 428v VIETNAM (Hanoi); VV pgm till 1600//10225. Excellent but drifts (Willis-Australia).  
 429 CHINA R. Peking; 0944 CC mx & singing. Ute & CW QRM (Brookwell 11/24).  
 450 VIETNAM (Hanoi); 1328 VV talk by man & woman, mx (Bryan 12/1).  
 490 CHINA R. Peking; 0957-1100 Harangue in lang w/appalause, cheers, cmntry (Brookwell)  
 520 CHINA R. Peking; 1332 FF tlk by man, mx (Bryan 12/1).  
 540 KOREA (NORTH) R. Pyongyang; 1140-1335 JJ talk & classical mx (Earhart, Bryan).  
 574 KOREA (NORTH) R. Pyongyang; 2000 EE w/IS, ID, nx, cmntry //9420 (Zilmer 11/21).  
 590 CHINA R. Peking; 1339 EE talk by M&W, CC language lessons (Bryan 12/1).  
 645 CHINA R. Peking; 1342 AA political talk, mx (Bryan 12/1).  
 770nf CHINA R. Peking; 1400 FF pgm with a big signal (Willis-Australia).  
 900 TURKEY Turkish Meteorological Station; 1400 w/mx & Turkish announcements. (Willis-Aus)  
 904 VIETNAM Viet Bac; 1200 VV//4102. By the way, Tac Bac is now heard 1145-1430\* on  
 4770 & 6330 (Willis-Australia).  
 935 CHINA R. Peking; 1524 in lang w/International & s/off (Poppin 11/24).  
 938 CHINA R. Peking (Kunming); 1212 EE language lesson at this time (Willis-Australia).  
 955 CHINA R. Peking; 1229-1356 JJ talk (Earhart 12/4, Alder 11/19, Bryan 12/1).  
 010 CHINA R. Peking; 2010 talk by man in unknown European lang, ID (Wootten-Italy 10/30)  
 035 CHINA R. Peking; 2018 CC talk by man; woman repeating phrases (Wootten-Italy 10/30)  
 040 BHUTAN NYAB; \*1232-1315\* EE s/on into pgm of short announcements & much presumed  
 Bhutanese mx. No Western mx. 1300 ID. I didn't know 300 watts could sound so loud-hi!  
 Fair level. HIC 2051 (Cosier-Australia 11/24). Congratulations OMI!  
 050 EGYPT R. Cairo; 2020 AA tlk by woman, man interjecting comments or questions (Wootten).  
 055 CHINA R. Peking; 2023 Patriotic song, FF ID (Wootten-Italy 10/31).  
 065 ALBANIA R. Tirana; 0130 EE cmntry (Bernstein). 0526 FF tlk//7090 (Edelstein) 0630  
 EE pgm (Cain). 2025 FF ID, IS, s/off (Wootten-Italy).  
 075 EGYPT R. Cairo; 2029 music, AA ID. R. Tirana QRM at 2030 (Wootten-Italy 10/31).  
 085 PAKISTAN R. Pakistan; 2032 Pakistan mx, AA(?) tlk (Wootten). 2115 EE pgm (Gionet).  
 095nf PAKISTAN R. Pakistan; 1900 Koran chants, FF to Europe. (ex 7290) (Padula-Australia).  
 100 BULGARIA (?) R. Moscow Relay; 2020 SS nx & mx (Fryou). 2040 RR talk (Wootten).  
 105 BULGARIA R. Moscow Relay; 0005 EE cmntry (Woltman). 0230 EE tlk on Chile (Fryou).  
 105 MONACO TWR; 0725-0845 EE Religious pgm 'Your Worship Hour' (Camillo, Imbert, Luce).  
 110 HUNGARY R. Budapest; 2100 Hungarian w/Time pips, ID, nx (Wootten-Italy 10/31).  
 110 MALI Rdf du Mali; 0830-0900 FF talk, ID, local music, etc. (Osterman, Hohnstein).  
 115 BULGARIA R. Sofia; \*0430 EE pgm (MacKay 11/21).  
 115 BULGARIA R. Moscow Relay; 0211 EE w/DX pgm, ID. QRM. (Edelstein 11/18). (Hohnstein)  
 115 MOROCCO RTVM (Seba-Aioun); 0645 FF talk & AA style mx. Hrd only on 11/23, 11/24  
 115 SPAIN RTVE; (Noted here one day only 2040 w/SS for Europe (ex7105) (Padula-Australia).  
 120 ALBANIA R. Peking Relay; 0110 EE nx (Earhart). 0300 EE pgm (Schipelliti, Cooper, Malone).  
 120 KUWAIT R. Kuwait; 1100-1430 AA pgm //15415 (Willis-Australia).  
 120 MONACO TWR; 0900\* EE religious pgm. Asked Listeners to retune to 31mb (Jones 11/28).  
 120 USSR R. Moscow; \*2130-2200\* EE nx, cmntry to Africa. BBC QRM (Gionet).  
 121 SOMALIA R. Hargeisa; 1511 In what seemed to be a dialect of Somali//11646 (Willis-Au)  
 125 GUINEA REP. Rdf Nationale; 0600 FF tlk & mx (Hohnstein). 2153 FF ID & nx (Schwartz).  
 135 USSR R. Moscow; \*2000 FF nx (Gionet). 2115 EE cmntry (Cress). 0445 EE cmntry (Bryan).  
 145 POLAND Polish R.; 0435 EE nx, cmntry (Green). 0620 FF tlk & mx (Hohnstein).  
 145nf GERMANY (WEST) DW; 1838 RR cmntry (ex 7150) but still jammed (Padula-Australia 11/8).  
 150 USSR R. Vilnius; 2315 EE news & mailbag pgm (Mooney, Fedor).  
 150 USSR R. Moscow; 0622 EE ID, Music from Moscow 'Haymayers Song' (Poppin 11/27).  
 160nf AUSTRIA ORF; 2135 GG talk for Europe (ex 7135) but xed USSR (Padula-Australia 11/7).  
 165 RYUKYU ISLANDS VOA; 1132-1406 EE nx about Rhodesia, mx, etc (Imbert, MacKay, Bryan).  
 165 USSR UNID; 0920 CC pgm; 0930 fluttery IS into lang. Suspect Nikolayevsk (Brookwell).

- 7165nf PAKISTAN R. Pakistan; 1304 Turkish service w/national songs//6115 (Padula-Aus).  
 7170 NEW CALLEDONIA R. Noumea; 0626 FF w/soccer match, ID (Schwartz 11/21).  
 7175 USSR R. Moscow; 0423 EE cmntry on USSR Disarmament (Bryan 12/1).  
 7175 USSR Mayak R; 0930 RR w/classical mx. Poor modulation//7200 (Hohnstein 11/27).  
 7180 MALAYSIA BBC; 1050 Indonesian pgm, 1100 JJ nx, EE ID at 1115 into Native pgm w/ tropical bird calls (Brookwell). 1257 English by Radio into lang at 1300 (Imbert).  
 7185 USSR R. Moscow; 0216 EE pgm (Davenport). 2245 EE nx & cmntry (Fryou).  
 7190 USSR R. Vilnius; 0050 EE cmntry program (Green 11/20).  
 7190 YEMEN DYBS; 1300 AA tlk & mx. No sign of 5060 these days! (Willis-Australia). 1935-2200\* AA ID, tlk, mx, etc. (Yajko, Wolfish, Lineback, Schulman, Delap).  
 7190 GERMANY RFE; 0700 PP news pgm (Hohnstein 11/27).  
 7195 LIBERIA VOA; 0429 EE w/summary of the news (Bryan 12/1).  
 7195nf SPAIN RTVE; 2035 w/SS to Africa. Believed ex 9560. (Padula-Australia 11/6).  
 7200 PHILIPPINES VOA (Tinang); \*2230 talk in oriental language, pop mx (Hohnstein 11/6).  
 7200 USSR R. Riga; 0440 RR w/clear ID. Semi-classical mx, nx, TC, Mayak IS 0900(Hoffman).  
 7200 USSR MAYAK; 0956 RR pgm (Brookwell). 1529 RR w/Moscow Chimes, TC, etc (Poppin).  
 7200 USSR R. Moscow; 0125-0156 EE nx, cmntry, etc//7100 (Morby 11/29).  
 7203 KOREA (NORTH) R. Pyongyang; 0953 SS pgm(Brookwell). 1039-1049\* EE cmntry (Boomer).  
 7205 USSR R. Kiev; 0035 EE cmntry, reading & answering letters, mx (Woltman 11/20).  
 7210 USSR Khabarovsk HS; 0945 RR 1A pgm, drama, no mx, ID (Brookwell 11/18).  
 7210 SWITZERLAND SBC; 2215 w/FF, AA & SS pgm to 2300 (Mayer 11/26).  
 7215 HUNGARY R. Brunei; 1330 EE nx (Dalrymple 8/20).  
 7215 HUNGARY R. Budapest; \*0200 EE nx (Gercken). \*0300 EE ID, nx (Schipelliti,Schwartz).  
 7215 USSR R. Kiev; \*0030-0056\* EE cmntry on Patty Hearst(Beastin) 0310 EE(Schipelliti).  
 7220 GERMANY (WEST) R. Liberty; 0630 RR w/IS, ID, cmntry. Jammed (Coiser-Australia 11/16).  
 7225 MOROCCO RTVM (Sebaa-Aioun); v\*0430-0800\* AA ID, nx(Padula,Coiser,Cress,Bunn).  
 7225 PHILIPPINES FEBC; 1012 JJ & xmas nx (Brookwell). 1140 Oriental lang (Hohnstein).  
 7225 RWANDA DW; \*0425 EE w/IS, ID, freq., nx, mx, etc. (Green 11/5).  
 7230 MONACO TWR; \*1105 GG w/IS (Music Box), EE ID, GG religious pgm (Ware).  
 7237 MONGOLIA R. Ulan Bator; RUB is no longer noted with foreign service 1300-1500 on 7237, 7262 or alternates of 5960, 4948, 10650, 118551! Has this FS - which used to have Mongolian & CC gone off the air? EE still may be on 6383, but I have not heard it. Nothing on 5960 or 17785 at 1220-1250 for same EE Svce either. (Willis-Australia).  
 7245 USSR R. Kiev; \*0300 EE nx & cmntry, etc. (Shridharani, Aston, Earhart).  
 7250f SAUDI ARABIA BSKSA; 0910 AA talk w/no ID (Hoffmann 11/28).  
 7250 SINGAPORE R. Singapore; 0200-0400 w/Malay pgm. Incredibly good signal (Willis).  
 7265 TOGO Rdf du Togo; 0605 FF nx, ID, mx //5047 (Hohnstein 11/24, Schwartz 11/18).  
 7265 GERMANY (WEST) Sudwestfunk; 0145 GG ID, mx (Hall). 2345 GG mx, ID, nx(Schwartz).  
 7265 USSR Vladivostok HS; 0430 RR ID, talk (Schwartz 12/3).  
 7265 YEMEN R. Sanaa; 0415 AA mx (Earhart). 1328 AA vocals, 1400 nx (Bunn).  
 7265 UNID; 0617 FF w/light conversation into E. Euro lang 0630. RFE? Not SWF! (Coiser).  
 7270 SOUTH AFRICA RSA; \*0300 EE pgm (Bernstein, Hywarren, Earhart, Schipelliti, Bryan, Malone, Willis-Australia). 2135-2150\* EE DX Corner, nx, etc (Zilmer).  
 7275 USSR R. Moscow; 2335 SS nx (Lausevich). 0437 RR mx 'Happyness to You', TC (Poppin).  
 7275 NIGERIA VON; 0625-0755 EE pgm. S/on varies (Dalrymple,Hywarren,Camillo,Edelstein,Bogel  
 7275 CEPRUS BBC; 0037 EE pgm. Poor w/Ham QRM (Nicholson 10/9). Luce)  
 7290 USSR R Peace & Progress; 0403 SS ID, cmntry, IS. Machine Gun type QRM (Poppin 12/2).  
 7290 USSR R. Vilnius; 2305 EE world nx. Talk on USSR/E. Europe relationships(Bernstein).  
 7290 USSR MAYAK; 0303 RR tlk, orch. mx, ID, etc (Edelstein). 2115 RR tlk,IS(Overcamp).  
 7295 MALAYSIA VOM; 0100 EE nx. Heard till 0400. Fine level (Willis-Australia).  
 7300 ALBANIA R. Tirana; \*0230 EE nx(Schipelliti,Green). 0352 EE pgm(Schwartz)0630 EE(Luce).  
 7300 GERMANY (EAST) RBI; 1957 IS,FF tlk(Beaudoin). 2150\* Swedish tlk,mx(Chicky,Schwartz).  
 7305v CLANDESTINE (CHINA) V. of the Malayan Rev; \*2200 Malay pgm (Legge). 2300 CC till 2320 NA(?) then Tamil ID into Tamil pgm (Hywarren).  
 7320 USSR R. Moscow; 0251 SS talk by M&W, ID (Edelstein 11/27).  
 7320 USSR Magadan HS; 1420 RR w/classical mx, woman announcer (Bryan 12/1).  
 7335 CHINA R. Peking; 1425 Unidentified lang, International, s/off (Bryan 12/1).  
 7345 CZECHOSLOVAKIA R. Prague; \*0100-0157\* EE nx, mailbag, folk mx (Anderson,Woltman). 0330 EE nx, mx, etc. (Fryou). 2000-2030 EE broadcast to Europe (Cooper).  
 7350 USSR R. Moscow; 2115 EE mailbag pgm (Klassman). -I have 7360 listed (ed)-.  
 7355 USSR R. Moscow; 0232 EE tlk on Council for Mutual Economic Assistance, etc(Edelstein).  
 7360 USSR R. Moscow; \*1930 EE nx (Yajko 11/25). 2250 EE cmntry (Shridharani) 1625 RR HS 779720, 15455 (MacKay 11/21).  
 7374 VIETNAM Hanoi; 1043 VV tlk & mx (Osterman). \*1200 lang tlk//10060(Zilmer)  
 7412.5 ISRAEL IBA; \*0500-0515\* EE nx (Hoffmann,Bogel,Willis) 1825 RR, 1830 Hebrew, 1900 RR. NF ex 12025. Jammed(Padula). 2020 EE nx(Schwartz). 2230 EE pgm(Schwartz,Woltman,Poppin).  
 7416v VIETNAM Hanoi; 1130 VV pgm (2nd Net) (Willis) 1200 Lang tlk//10224 (Zilmer).  
 7420 USSR Minsk(?) HS; 0229 RR tlk by M&W, Guitar mx (Edelstein 11/27).  
 7440 USSR R. Moscow; 0223 EE ID, mx, etc (Edelstein 11/27).  
 7440 USSR MAYAK; 1735 RR TC '20 chasov, 35 minoot', instrumental (Poppin 11/11).  
 7460 ISRAEL IBA; 0405 Hebrew cmntry & nx (Poppin). 2110 Hebrew tlk, mx//9355 (Zilmer).  
 7470 VIETNAM VOV; 1315 lang tlk by woman//10040 (Zilmer 11/14). -Lang could be FF (ed)-.  
 7480 LAOS Pathet Lao; 1130 Laotian mx. One string instrumental IS (Brookwell 11/20).

- 7490 USSR MAYAK; 0941 RR Nikolayevsk Feeder. Opera mx. Beautiful signal (Brookwell).  
 7511 VIETNAM VOV; 1230 lang tlk & local mx//9842 (Zilmer). -I have Indonesian listed (ed)-  
 7580 KOREA (NORTH) R. Pyongyang; \*0700 EE cmtry & propaganda (Glazzy 11/20).  
 7590 CHINA R. Peking; 1438 CC talk by woman (Bryan 12/1).  
 7976.0 GREAT BRITAIN BBC; 0605 EE WS feeder on RCSSB noted 12/5 (Hauser). (Brookwell).  
 8000 JAPAN JG2AE Time Station; 0900 Signal pips, Minute tone, CW & voice ID on hr ↗  
 8171t LAOS Luang Prabang; 1200-1400 Laotian. Very weak, believe drift from 8176(Willis).  
 9009nf ISRAEL IBA; 0500 EE for West N. America (ex 9815) (Padula-Australia 11/7).  
 9022 IRAN NIRT; 2000 EE ID (Chicky,Miller). 2015\* Farsi ID, mx, etc (Roberts,Troster).  
 9170 CHINA R. Peking; 1537 ID talk in lang, chorus mx, etc. (Poppin 11/28).  
 9355 ISRAEL IBA; 1130 Hebrew HS w/good mx (Wootten). 1420 Hebrew tlk//12077 (Zilmer).  
 9420 KOREA (NORTH) R. Pyongyang; 2000 EE w/freq & pgm sked, nx, etc//6574 (Zilmer).  
 9425 ISRAEL IBA; 2000 EE pgm on immigrants. Good signal (Herish 11/17).  
 9435 ISRAEL IBA; 2242 EE DX Corner, Voices from Israel, etc (Swanson, Bryan, Zilmer).  
 9455 EGYPT R. Cairo; 0730 AA announcements w/excellent level (Willis-Australia).  
 9460 UNID; 0245 Mets vs Pirates. After game carrier off. ID as NY Mets Baseball Net (Winslow  
 9460 PAKISTAN RP; 1345-1405 Urdu talk by OM. 1400 ID, nx//15325 (Roberts, Zilmer).  
 9460 CHINA R. Peking; 0300 EE nx (Bryan,Bogel). 0400 EE ID, etc (Grenier,MacKay,Glazzy).  
 9470 USSR R.S. Atlantika; 1614 RR w/Ural Folk Song, TC, Unusual Chimes, ID (Poppin).  
 9480 ALBANIA R. Tirana; \*1630 EE nx(Grow). \*2030 EE ID (Glazzy). \*2100 FF nx (Gionet).  
 9495nf ISRAEL IBA; Ending RR 1830; Hebrew 1830, RR 1900 (ex 11625) (Padula-Australia).  
 9500 ALBANIA R. Tirana; 1935-2000\* EE (Herish). 2342 SS tlk by W (Edelstein).  
 9505 JAPAN NHK; 0612 EE Current Topic pgm. 0615 JJ (Hoffmann 11/12).  
 9510 INDONESIA NRI (Ujung Pandang); Daily as early as 0203 (Willis-Australia).  
 9510 SEYCHELLES FEBA; 1645 EE ID, mx(Nebron). \*1800 IS, ID, AA relig (Edelstein,Roberts).  
 9515 TURKEY VOT; 1345 Turkish tlk & chanting (Bryan). 1910 Turkish tlk (Edelstein).  
 \*2200-2300 EE pgm (Chicky, Bernstein,Fedor, Schipelliti, Schwartz,Grow,Mooney).  
 9510 VENEZUELA R. Barquisimeto; 2235 SS tlk & ID, ads, mx (Alintuck -out of place-  
 9515 AUSTRALIA RA; 0707 EE ID tlk (Edelstein). 1010 EE ID, etc (Schipelliti).  
 9520 PAPUA N.G. NBC; 0631 EE ID, request for slogans(Hoffmann). 0712 EE sports(Dalrymple)  
 9525 JAPAN NHK; 2345 EE w/IS, ID, nx (Rojewski 12/4).  
 9525 INDIA AIR; 1900-2135 EE ID, nx, mx (Gionet, Hall, Yajko).  
 9525 CUBA RHC; 0710 EE tlk (Edelstein). 2345 SS pgm (Earhart).  
 9525nf ETHIOPIA ETFLF; 0259 FF. Fine level (Willis-Australia).  
 9525 KOREA (SOUTH) R. Korea; 1030. RK uses this fq off & on. EE (Willis-Australia).  
 9530 AUSTRALIA R. Australia; 0710 EE talk (Dalrymple).  
 9530 ROMANIA R. Bucharest; 1500 EE pgm // 11940, 7225 (Willis-Australia).  
 9535 SWITZERLAND SBC; 1311 EE tlk, Swiss mx (Earhart). 2100 EE(Hoffman,Herish,Sheehan).  
 9535t INDIA AIR; Indian mx, EE anmts. Mentioned other India Txions but no ID hrd. 0115\*  
 9540 POLAND Polish R.; 1830 EE nx (Beaudoin) (Willis-Australia).  
 9540 NEW ZEALAND RNZ; 0505 EE nx (Padula). 0716 EE ID, IS, orchestra mx (Edelstein).  
 9540 AUSTRALIA RA; 1500 EE//9575 (Willis). 1931 EE ID, talk by man, W singer, etc.  
 (Edelstein). 2010 EE ending nx giving incorrect time as 2211 GMT (Hauser 11/14).  
 9540 USSR R. Tashkent; 1221 EE mailbg, program details. Fair-good (Mooney 11/13).  
 9545 ANTIGUA DW; \*0400-0515\* GG pgm(Hauser,Ravenhorst,Hoffman,Hoffmann,Bogel,Grenier).  
 9550 FINLAND R. Finland; 2300 Finsih talk pgm to North America (Zilmer 11/19).  
 9550nf NORWAY R. Norway; 0805 EE for E. Australia & Norwegian at 2100 to Far E.(Padula).  
 9560 AUSTRALIA R. Australia; \*1028 EE ID then CC pgm at 1030 (MacKay 11/11).  
 9560 BULGARIA R. Sofia; 1935 Serbo-Croat (?) tlk by M(Edelstein) 2105 EE nx (Gionet).  
 9560nf SWITZERLAND SBC; 0700 EE (Willis). 0740 Italian (ex 9590). Good level (Padula).  
 9566 CHILE VOG; 0200 EE nx into SS pgm (Godfrey, Yajko, Mooney).  
 9570 ROMANIA R. Bucharest; 0207 EE pgm (MacKay). 0413 EE tlk on Foreign Affairs (Aston).  
 9570 AUSTRALIA RA; 0732 EE nx (Edelstein). 0830 nx w/mention of the planned strike  
 by all ABC stations (TV,FM,AM,SW) 11/29. DX pgm mention that Gilbert & Elllice Islands  
 may be back on SW around early 1978 (Wootten 11/28).  
 9570 QATAR QBS; 1303\* AA w/chants, ID, etc (Cress,McNell,Vokes,Mayer).  
 9570 SPAIN RTVE; 1051 SS ID (Schipelliti) 2101 SS pgm for America (Overcamp).  
 9575 NETH ANTILLES TWR; 2200-2222\* FF pgm & ID. (Legge, Hauser, Gionet).  
 9575 AUSTRALIA RA; 1450 EE w/ragtime mx, nx. (miller 12/6).  
 9575t GREENLAND Gronlands R; 2000 talk in lang, bells, ID, etc (Bishop,Osterman).  
 9575 ITALY RAI; \*1831 IS, Italian ID, nx(Schipelliti). 2235 Italian nx(Shridmarani).  
 9580 AUSTRALIA RA; 1100-1343 EE news, features, mx (Norby, Woltman, Swanson).  
 9580nf KUWAIT RK; 1745-1938 EE tlk w/pop mx, Id, etc (Osterman,Camillo,Miller,Legge).  
 9580 ZAMBIA R. Zambia; 1830-1905 EE w/Bible tlk, mx by Chicago (Schulman 11/26).  
 9585 HUNGARY R. Budapest; 0206 EE pgm//9833. Strong signal (MacKay 11/9).  
 9585 JAPAN NHK; 1358 IS, EE ID, General Service News. Fair signal (Mooney 11/7).  
 9585 SOMALIA R. Mogadishu; 2045-2100 AA nx of world, ID, NA, s/off (Lineback 11/11)  
 9585 SOUTH AFRICA RSA; \*0257 EE ID, sked, pop mx (Bryan,Willis). 0458 ending Lozi svce  
 (NF ex 5980) (Padula).\*2230-2320\* EE pgm(Schipelliti,Davenport,Poppin,Alintuch,Malone,  
 9590 INDIA AIR; 2300 EE nx (Dalrymple) Shridharani).  
 9590 SWITZERLAND SBC; 0700 EE (Dalrymple).\*1815 Italian(Schipelliti) 2100 EE nx(Green).  
 9600 USSR R. Tashkent; \*1200 Earhart,Camillo,Mooney).\*1400 EE pgm(Roberts).  
 9605 UNID; \*1430 w/AA sounding IS played long & slowly on harp. A lot of QRM (Hywarren).

- 9605nf NORWAY RN; \*1300 Norwegian (ex9590) (Willis,Padula). 1400 EE nx & views (Zilmer).  
 9605 ANTIGUA DW; \*1257 IS, ID, GG pgm(Conover,Zilmer). \*1329 IS,EE,ID,GG pgm (Jones).  
 9605nf SWEDEN R. Sweden; 1353 SS tlk,pop mx(Bryan). 2030 FP (ex11790) (Padula).  
 9615 GREECE EIRT; \*1400 Greek w/nx, 1415 AA (Bunn 11/19, Willis).  
 9615 MOROCCO RTVM; 2150 AA mx & cntry. Could hear KGEI under signal (Richardson 11/19)  
 9620nf CLANDESTINE (CHINA) V. of Malay Rev; 0930 EE//11828 (EE also at 0830)(Willis).  
 9620 VIETNAM Ho Chinh Minh; 0200-1500 EE pgm//6165 (Willis).  
 9625nf SWITZERLAND SBC; 0621 FF for Africa w/nice Swiss mx. USSR QRM (ex15430) (Padula).  
 9635nf SWEDEN RS; 2145 SS for Africa (ex9575); also, SS for Africa \*2230(ex9715)(Padula).  
 9640 ANTIGUA DW; \*0230 IS, EE ID, SS pgm (Miller 12/1, Conover 11/25, Padula 11/2).  
 9645nf NORWAY RN; 2002 Norwegian (ex15175)(Padula). 2105 Norwegian (ex15345)(Aston,Padula)  
 9645 SEYCHELLES FEBA; \*1545 EE w/IS, ID, religious pgm//11845 (Janqua). (Bunn)  
 9645 PHILIPPINES R. Veritas; \*1130-1328\* VV/II/Thai; back on at 1400-1500\* EE (ex9610)  
 9655 THAILAND RT; 1100 EE nx(Dalrymple). 1232 rather Western orchestral mx w/YL in oriental singing, tlk by M in lang (not Thai), mx, talk in Thai(?), etc (McNeill).  
 9655 COLUMBIA R. Nac de Columbia; 0330 SS mx(Nebron). 1800 SS(Cress). 1200 SS ID(Jones).  
 9666 MALAYSIA RM; 0100 EE pgm with an outstanding signal (Willis).  
 9670 PHILIPPINES R. Veritas; 1300-1358\* w/apparent tests w/old medley tunes & JJ tlk(Bunn)  
 9670 PORTUGAL AWR; \*0700 IS, multi lang ID, AA pgm (Hywarren). IBRA 1800 RR ID, etc. (Schipellitti). IBRA \*2030-2059\* EE ID, religious pgm, etc (Grow,Osterman,Hall).  
 9675 KOREA (SOUTH) R. Korea; 0604 EE Nx, ID. Very good signal (Hoffmann 11/12).  
 9682 COLUMBIA R. Nac; 1100-1305 SS tlk & mx. Gave time as 7:26 & time in El Salvador as 9:26 I rather doubt El Salvador is now on GMT-3 (Hauser,Mooney,Earhart).  
 9685 ALGERIA RTVA; \*0600-1400\* AA pgm (Willis).  
 9685 TAIWAN VOFC; 1730-1745 EE cntry, ID, "Music from Taiwan" (Glazzy 11/14).  
 9690 ROMANIA R. Bucharest; 1325\* EE//15250,11940(Mackay). 1510 EE Cyprus cntry(Mooney).  
 9695 BRAZIL R. Rio Mar; 2328 PP w/mx, ID, orchestra mx 'Baby Face' (Earhart 11/15).  
 9695 SWEDEN R. Sweden; 0230 EE w/IS, ID, Saturday Show, nx, cntry (Green 11/27).  
 9700 BULGARIA R. Sofia; 2135 EE nx(Hersi,Fedor). 0000-0059 EE, ID,mailbag(Davenport,Mooney)  
 9709 MAURITUS MBC; 1232+ flute mx, lang talk, nx(?), xylophone mx (Vokes, Miller).  
 9715 MOROCCO R. Kuwait Relay; 0215 EE. A man said that R. Kuwait was being relayed thru Tangier. Then AA pgm. The relay frq of 6873 was also hrd(Richardson)-More info please  
 9720 USSR R. Sta. Atlantika; \*1300 RR w/IS,clear ID(Ware).0803 RR unid w/tlk,mx(Edelstein)  
 9720nf SWEDEN R. Sweden; 1835 EE nx for Africa (ex 11790) (Padula 11/8).  
 9720 KOREA (SOUTH) R. Korea; 1812+ EE ID,Sunday Magazine,etc (Poppin,Miller,Roberts).  
 9725nf SEYCHELLES FEBA; 0313 EE ID, Swahili pgm, 0330 EE, etc (Altman, Osterman).  
 9730 GUAMDA UBC; 2023-2101\* EE ID,nx,interview of UBC director (Jones,Hersh,Edelstein).  
 9730nf SAUDI ARABIA BSKSA; 0500 AA (Willis). 1414 AA nx & tlk by M & W (Bryan).  
 9740 ARGENTINA R. Splendid; 0509 SS w/tango, ID. Het! (Hauser 11/13).  
 9740 MALAYSIA BBC; 1230-1315 EE mx, 'A Jolly Good Show' (Camillo 11/21).  
 9745nf SWEDEN R. Sweden; 1253 EE for E. Asia (ex 15120) (Padula 11/12).  
 9747.5 IRAQ R. Baghdad; 1900 AA pgm, 1930 Bird IS,EE pgm(Richardson,Miller,Chicky,Hersh,Grow  
 9750nf SWEDEN R. Sweden; \*1330 IS, FF pgm (Ware). 1400 EE nx//11920,15305 (Bunn,Zilmer).  
 9760 GHANA QBC; 2045-2100 EE nx, ID, etc (Delap 11/24).  
 9765 ANTIGUA BBC; 0135 SS ID (Edelstein).t\*2200-0015\* PP pgm (Nicholson)  
 9768 KOREA (NORTH) RP; 0401 SS ID, etc(Hywarren). 2200 Korean tlk//11535 (Zilmer).  
 9780 YEMEN R. Sanaa; 0500-1500 AA(Willis). 1900-2145 AA(Roberts,Edelstein,Miller,Schulman)  
 9805 ANTIGUA DW; \*1300-1350\* EE ID into GG ID & nx (Troster 11/8).  
 9810 USSR R. Pacific Ocean; 0700 RR ID & gave Vladivostok time as 18 Chasov (Poppin).  
 9820 KOREA (NORTH) RP; 0616 EE ID, cntry,'Light of the Pky Central Committee' mx(Poppin)  
 9843 VIETNAM Tay Nguyen; 0100 VV pgm (Willis). 1240 lang & man singing//7511 (Zilmer).  
 9912 INDIA AIR; 2205-2230\* EE nx, Newsreel, cntry, etc (Richardson, Bishop).  
 9977 KOREA (NORTH) RP; 1811 EE ID, talked about Angola & Waterways, etc (Poppin 11/11).  
 10005 GREAT BRITAIN BBC; AA pgm. Not harmonic. What is BBC up too?? (Willis) -Time??-  
 10040 VIETNAM VOV; 0945 lang & Asian type mx (Davenport). 1200\* Thai (Willis). 1300 FF ID//7470. 1330 lang (Vokes,Zilmer). 1915 FF ID, cntry, march mx (Poppin).  
 10060 VIETNAM VOV; 1230 lang tlk, mx//7374(Zilmer,Osterman). 1305 VV play (Yajko).  
 10224 VIETNAM VOV; 1230 lang tlk by W//7417 (Zilmer). HS network 2 \*0930//9430 VV(Willis)  
 10335.6 INDIA AIR; 1440 Hindi w/Indian popular style mx (Willis)  
 11350 KOREA(NORTH) KCBS; \*1300 Korean tlk(Zilmer). 2045 KK (Mooney). 2355 KK tlk(Hoffmann).  
 11535 KOREA(NORTH) RP; 0425 SS(Aston). 0505 AA ID(Poppin). \*2300 EE (Zilmer,Bryan).  
 11630 USSR R. Station Youth; 0516 RR ID, TC '8 Chasov 20 Minoot' (Poppin 11/17).  
 11646 SOMALIA E. Hargeisa; 1200-1400+//7120 & better than Somali 9585 (Willis).  
 11695 UNID; 0615 AA w/austounding signals, Western mx, AA mx. Beirut? (Padula 11/11).  
 11700 VATICAN CITY Vatican R; \*2327 SS w/IS, Bells, ID, SS pgm (Jones 11/21).  
 11700 DOMINICAN REP R. Clarin; 1730-0045\* SS (EE at 2330) ID, etc (16 Reporters!!).

Many reports were not included this month because of lack of space. Sorry! Most of the items that did not appear can be found in the Dec. Log-Report C. I tried to squeeze in as many reports as I could. Next month I will be allocated five pages so I expect to be flooded with DX-tips! Thank you very much to those who sent in DX tips this month!!

As for me, I will not be going to Britain until 1978-1979 but will remain in St. Cloud the letters to me should still be sent to my Wayzata address.

Remember, all reports should be sent to the Distribution Editor: Greg Ravenhorst, Rural Route, Hollandale, Minnesota 56045. The deadline is the 12th of the Month!!

# log report *section* **D**

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HAPPY NEW YEAR! 11701+

JANUARY, 1977

PLEASE SEE LAST MONTH'S COLUMN FOR MANY ADDITIONAL ITEMS.  
SUPER THANKS TO ALL THIS MONTH'S CONTRIBUTORS!!!

- 11705 AUSTRALIA RA; 2300 EE, nx to S.E.Asia, unlisted time (Zilmer 11/22)  
11705 FRANCE RFI; 1700-1800 EE (Anderson 11/23, Cooper 12/6, Hancock 11/10)  
11705 VATICAN VR; 2215-2230 EE, religious pgm, fair (Zilmer 11/21).  
11710 ARGENTINA RAE; 2200-2230 FF (Poppin 11/23, Gionet n.d.); 2300-2350 EE (Clark 11/26, Edelstein 11/22, Anderson 11/25, Schipelliti 11/10)  
11715 VATICAN VR; 1720 ?-lang, ID by W, new freq (Hall 11/24).  
11720 CANADA CBC N.S.; 2105-2200 EE, radio play, good (W.Hoffman 12/4).  
11725 AUSTRALIA RA; 1945-2215 EE to Pacific (Mayer 11/20, Zilmer 11/20).  
11730 GREECE VOG; 1515 EE, nx, fair (Godfrey 11/27, Osterman 12/5).  
11730 HOLLAND RN; \*1830 EE, special live "Happy Station" (C.Hoffman 11/21)  
11730 MALAGASY REP. RN-Talata; 1555-1605 AA w/Arab-style mx (Bogel 11/23  
\*2000-2130\* EE, excellent tho QRM from CBC N.S. (8 reporters).  
11730 USSR "R. Station Peace & Progress"; 1345-1358\*, on freedom of religion in Russia (Barhart 11/20); 1345-1355 EE to Asia (Mackay 11/21)  
11735 MOROCCO RTVM; 1555-1625 AA, mx w/tlk, QRM de RN-11730 (Bogel 11/23)  
11735NF SWEDEN RS; 1302 Swedish for E Asia, good (Padula-AUST 11/12); 1627-1630 IS, v. poor (Bogel 11/26). Latter s/b \*1630 EE to M.E. -ed  
11740 VATICAN VR; 1445-1500 EE, ID, rel. nx, mx (Glazzy 11/23).  
11745 ECUADOR HCJB; 1330-1532 EE (?-12/3, Swanson 11/26, Fedor 11/21).  
11745 SWITZERLAND SBC; 1316 EE, nx, to E. Asia, excellent (Padula 11/12)  
11755 ARGENTINA R. El Mundo; 0115-0130 SS, U.S. pop mx, talk by M, ID at 0130, poor (Hall 11/16). Thanks for this good tip, Tom -ed.  
11765 USSR "R.S.P.&P."; 1445 EE, ID, mx and Soviet talk, p (Kromka 11/8).  
11770 ETHIOPIA ETLF; 0535 FF ID (M.Willis); 0607\* EE (Mackay 11/23).  
11770NF SWEDEN RS; 1900 bc in SSB, annt in EE that they would send special veri card, QRM Aden, fair (Legge 12/6); 1930 Swedish, SSB relay of P-1, good level but interference from Aden (Padula 11/11).  
11775 USA WINB; \*2005 EE, extremely weak for 75 miles away! (Grow 11/20)  
2018 EE for Europe, ex-15185, 2200\* (Padula-AUST 11/10).  
11780 NEW ZEALAND RNZ; \*0609 EE, mx (Mackay 11/23); 0632-0820 EE, ID, terrific songs, "When It's Springtime in the Rockies", Polynesian Festival - exciting & beautiful songs by Polynesian chorus, they really put on a pgm!! (Poppin 11/12, 12/7). RNZ's #1 fan, hi! -ed.  
11790 AUSTRIA ORF; 1245-1255\* EE, clear for VOI at s/off (Boomer 11/22).  
11790NF ECUADOR HCJB; 1510 EE, seems to replace 11845 to Eur. (Hauser n.d.)  
11790 SOUTH AFRICA R. RSA; 0730 EE, mx pgm & requests, fair (Hall 11/19)  
11790 USA AFRTS via VOA-G'ville; 2215 EE, Rams game (W.Hoffman 12/4).  
11795 RWANDA DW; 2200-2215 GG, nx (Richardson 11/15, W.Hoffman 12/4). According to my information, \*2200-0200\* Kigali, other times BRD -ed.  
11800 SRI LANKA SLBC; 1508 EE/Hindi, ads w/EE tag lines such as "#1 cougar remedy" - "Does baby have bad appetite?"; fair (Miller 12/3).  
11805NF USA WYFR; 1651 EE, religious programming (Fedor 11/21).  
11810 AUSTRALIA RA-Shepparton; 2100 EE, nx, poor (Aston 11/27).  
11810 INDIA AIR; \*1330-1453 EE, nx, cmntry, Indian mx (8 reporters).  
11815 JAPAN NHK G.S.; 1400+ EE, 1/100 Million pgm (Swanson 11/29).  
11820 MOZAMBIQUE "A" pgm, Maputo; noted after BBC s/off 0415, African style drums, national vocal mx, PP announcements (Padula-AUST 11/2)  
11830 ROMANIA R. Bucharest; \*0645 EE for Pac., //11940 (Padula-AUST 11/8)  
11835 HAITI R.S.4VEH; 1200 EE, nx, relig. (Norby 11/19).  
11835 SRI LANKA SLBC; 1102-1115 EE, pgm on development (Camillo 12/8).  
11835 URUGUAY R. El Espectador; 2230-0230 SS, HCJB \*0230 (11 reporters).  
11840 JAPAN NHK; \*0058 EE/JJ to WCNA (Bogel 12/1). Cf. 17825, 15420 -ed.  
11840 POLAND Polish R.; 1630-1650 EE to Africa, poor (Camillo 12/1).

- 11840 UK VOA-Woofferton; 1411 in Soviet language flanked by same pgm from Kavala on 11830 & 11850, all 250kw (Hauser 11/13).
- 11840 USA VOA-Greenville; 2200-2210 FF, super signal (W.Hoffman 12/4).
- 11845 SEYCHELLES FEBA; 1600-1650\* EE, relig. (Miller 12/5, Mayer 11/28).
- 11845 SWEDEN RS; 2000+ GG to Afr., exc. despite low MUF (Padula 11/11).
- 11850 GERMANY DW; 0910 Pushtu to Afghanistan (Padula 11/8); 1728-1745\* EE to Africa, nx & commentary on African affairs (Sheehan 12/7).
- 11860 KOREA (SOUTH) RK; \*1130+ EE, IS, ID, nx, USSR QRM (Wooten 11/14).
- 11865 CANADA RCI; \*1930-2000 EE for Europe (Anderson 11/24, Padula 11/8).
- 11877 BRAZIL R. Sociedade da Bahia; 0015 PP, rapid tlk & electronic jingles, poor (Zilmer 11/25); 2332 PP, IDs, still using this station-name, appears to be Padula's unid. of last month (Walcutt 12/17).
- 11880 CANARY ISLANDS RTVE; 2056-2130 SS, guitar mx, songs, "Centro Emisor del Atlantico," poor (Overcamp 11/21); 2215 SS (Schwartz 11/20).
- 11880 TURKEY VOT; 2200 EE, earthquake nx, fair (C.Hoffman 11/26).
- 11885 PAKISTAN RP; 1240-1250 Bangla svce, //15520, S Asian mx, tlk about Pakl. events (Bunn-AUST 11/8); 0305-0322 ?-lang, tent. (Bogel 11/26).
- 11900 NETH. ANTILLES TWR-Bonaire; 1005 GG to S.Am. (Padula 11/10).
- 11915 BRAZIL R. TV Gaucha; 0019 PP, M&W, ads, Brazilian mx (Bryan 12/3); 0201-0210 PP, something happened at HCJB and R. Gaucho coming in like "Gangbusters", futbol; didn't hear ID so tent. (Earhart 11/29)
- 11920 CANADA RCI; 2353-0032 EE, "As it Happens"; 5960 x 2 (Earhart 11/24)
- 11920 IVORY COAST R. Abidjan; 1803-1845 FF, 1845-2000 EE, ID as "International Network of R. Ivory Coast" (Overcamp 11/26, Godfrey 11/25, Luce 11/20, Mooney 11/6); 2000-0000\* FF (Gionet, Earhart 11/11).
- 11920 SWEDEN RS; 1400-1415 EE to S. As., //15305 (Zilmer 11/21, Bunn 11/7)
- 11925 BRAZIL R. Bandeirantes; 1744-0253 PP, M&W, strings of ads, mx, sports (Earhart 11/25, Roberts 11/11, Bryan 12/1).
- 11925 NETH. ANTILLES TWR-Bonaire; 0045-0120 EE, World Religious News, \*7 calendar (Fryou 11/16, Bernstein 11/13, Clark 11/16, Malone 11/17).
- 11930 FRANCE RFI; 1730 EE, folk mx, v. good (W.Hoffman 11/21).
- 11930NF IRAN R. Tehran; 1415 Farsi, fair, //15084 (Legge 12/5).
- 11935 BRAZIL R. Clube Paranaense; 0022 PP, fast tlk (Bryan 12/3).
- 11935 NORWAY RN; 2022 NN for Africa; on some days this channel blocked by VOA-Greenville at this time (Padula-AUST 11/9).
- 11935 SRI LANKA VOA-Colombo; 1435 EE, Conover's jazz pgm (Miller 12/3).
- 11935 USA VOA-G'ville; 2100-2245 EE (Conover 11/27, Gionet n.d.).
- 11940 ROMANIA R. Bucharest; 1130-1132 FF, nx, ID, good (Schipelliti 11/11); 1320 EE, folk mx, strong, //15250, 9690 (Mackay 11/28).
- 11940 SINGAPORE RS; 0100-1200+, excellent signals (Willis-Australia).
- 11945 CHINA RP; 0000-0100 EE (5 reporters). Typo error on freq last month - sorry! -ed. 0250 CC, cmntry by W, mx (Schwartz 11/10).
- 11945 ETHIOPIA ETFL; 1755-1758 FF, ID, mx, good (Mooney 11/21); \*1845+ EE s/on ann. then band mx, good-fair (Hywarren n.d.).
- 11945 LIBERIA ELWA; 0650-0705 AA, chanting-type mx (Wolfish 11/6).
- 11950 AUSTRIA ORF; 1905 GG, nx for W. Afr., there is a pile-up on this freq which appears absurd: Vienna 1900-2100, Stockholm 1930-2000, Riyadh 1900-2000+, Moscow 1900-2100. Such is life! (Padula 11/8).
- 11950NF SWITZERLAND SBC; 0808 FF for A/NZ, ex-17840 (Padula 11/7).
- 11955 ETHIOPIA ETFL; 1940-2030\* EE, rel. pgms, good (8 reporters).
- 11955NF SWAZILAND TWR; 1800-1900 PP to Angola, annt "R. Transmundial, Manzini, Swazilandia", Swaziland now easy to hear! (Legge 11/26).
- 11960 HOLLAND RN-Lopik; \*1225 SS, IS, ID, nx, good (Green 11/26).
- 11960 ISRAEL IBA; 1400 Yiddish, tlk, jammed, //11655 (Zilmer 11/28).
- 11960 JAPAN NHK; 0637-0649 Swedish/Italian, strong (Poppin 11/9).
- 11965 BRAZIL unid. R. Record or R. Panamericana? 0000 PP (Zilmer 11/18).
- 11965 FRANCE RFI; 1850 FF for Africa, pops (Padula 11/8).
- 11980 CHINA RP; \*2330 CC, usual format, fair (Walcutt 12/25).
- 11980 USSR RM; 0535-0600 RR, Mayak format, dances (Poppin 11/26).
- 12000 AUSTRALIA VNG; 0548-0700 & 2140-2145 EE, time pips (4 reporters!).
- 12012 COSTA RICA R. Reloj; 6006 x 2, 2143 SS, King Kong ad, a monstrous signal too big to be ignored; seems best 1900-2200 (Walcutt 12/24).
- 12030 VIETNAM VOV; 1300 FF, //7470, 10040 (Zilmer 11/17); 0019-0035 (t) ?-lang, M talking non-stop, sounded like CC (W.Hoffman 11/15).
- 12045 ISRAEL IBA; \*0500-0515 EE, nx, review (Glazzy 11/23, Poppin 11/21)
- 12050NF USA VOA-Monrovia; 1759 PP, not feeder but full power! (Hauser 12/11).
- 12050 USSR RM; 0010-0035 EE, //15180, exc (Bryan 12/3, W.Hoffman 11/15).
- 12077 ISRAEL IBA; 1415-1524 Hebrew, mx, tlk, ads, W ann., fair/poor, //9355 (Zilmer 11/14, Yajko 11/25).
- 12175a UK BBC W.S.; 1200 EE, //other W.S. freqs, garbled (Overcamp 12/10).

- 15084 IRAN NIRT; 1413 Farsi, cmntry (Schwartz 11/28).  
 15100 ISRAEL IBA; 1226 EE, mx, wx, ads (Sano Spot Cleaner) (Jones 11/19).  
 15105 USSR RM; 0123-0130 EE, "Moscow Mailbag" (Poppin 11/22).  
 15115 ECUADOR HCJB; 1426-1530 EE (Bryan 12/3, Fedor 11/21); 1945-2015 SS, ID and varied music (W. Hoffman 11/14).  
 15115 GERMANY (EAST) RBI; 1210-1217 EE to S.E. Asia, f (Schipelliti 11/11).  
 15115 PORTUGAL RFE; 1618 Bulgarian; pop mx pgm, good (Wootten-SARD 11/2).  
 15115 USA VOA-Dixon; \*2230 Indonesian, EE ID (Ware 11/29).  
 15120 HOLLAND RN-Lopik; 1400-1520 EE (Luce 11/23).  
 15120 VATICAN VR; 1508-1515\* Italian; piano, cmntry, flute /orch (Poppin 11/28); 1630+ Arabic?, poor (Jones 11/14).  
 15130 USA WYFR; 1750-1900 EE, "The New Life" (Swanson 11/28, Ware 11/28).  
 15140 SWITZERLAND SBC; \*1315-1345 EE (6 reporters).  
 15140 USA APRTS via VOA-Bethany; relay of Nat. Public R. (W. Hoffman 12/4).  
 15155 SOUTH AFRICA R. RSA; 1700 DD, 1800 GG (Osterman 11/26, Schipel. 11/11).  
 15160 AUSTRALIA RA; 2247-0157+ EE (Yajko 11/21, Mooney 11/21, Bryan 12/1).  
 15160 HUNGARY R. Budapest; 1218-1226 EE, dx pgm (Schipelliti 11/11).  
 15180 UK BBC; 1630 AA, letterbox pgm?, good (Wootten-SARDINIA 11/2).  
 15180 USA VOA-Greenville; 2140-2230\* FF, excellent (W. Hoffman 11/14).  
 15185 HOLLAND RN; 1400 EE, to S.E. Asia, //15120, 17810 (Zilmer 12/1).  
 15190 USSR RM; 1130 EE to British Isles, also heard on 11705, 11745, 11830, 9720, "People & Events", fair reception (Gionet 11/24).  
 15195 JAPAN NHK G.S.; \*2200-2230 EE/JJ (Imbert 12/5, Beaudoin 11/13).  
 NHK N.Am. Svc; 0140 EE, every winter contradictory info is published by RJ on its 19m freqs for the NAS at 0130-0230 (Hauser 11/26).  
 Actually, G.S. goes to 17880 at 0100, per 12/76 schedule, leaving this channel available for NAS //11840, 15420, 17825 -ed.  
 15200 USSR RM; 1235 Gujerati to 1300\*, fair (Shridharani 11/27).  
 15200 FRANCE RFI; 1700-1800\* EE to Africa (C. Hoffman 11/16, Mooney 10/31).  
 15205 USA VOA-Gville; 2130 EE, "Issues in the News" (W. Hoffman 11/14).  
 15210 BELGIUM RTVB/ORU; \*1300+ FF, lt. mv. (Schwartz 11/26, Couvres 11/6).  
 15210 USSR RM; 0117-0123 EE, mailbag; petty crime, travel (Poppin 11/21).  
 15220 SOUTH AFRICA R. RSA; 0645-0705 EE, fair (W. Hoffman 11/18); 0911 Lozi w/modern EE vocals, ex-9585 (Padula-AUST 11/8).  
 15225 TAIWAN VOF; \*0900 Mandarin, 1200 Cantonese (Bunn-AUST 11/22).  
 15225/6 TUNISIA RTVT; 0800-1440 AA, recitations (Willis, Schwartz 11/25).  
 15230 CUBA RHC; 2009 SS, talk by a man (Ware 11/28).  
 15245 PORTUGAL DW-Sines; 1615-1625 Bulgarian, ID in PP (Troster 11/21).  
 15245 ZAIRE LVZ; 1645-2016 FF (Wootten 11/2, Schwartz 11/5, Ware 11/28).  
 15250 ROMANIA R. Bucharest; 1320 EE to Eur. //11940, 9690 (Mackay 11/28).  
 15250 USA VOA-Delano; 2230 EE into Vietnamese (Ware 11/28).  
 15255 NETH. ANTILLES TWR-Bonaire; 1230-1423\* EE, mx, 1977 calendar details, good (Shridharani 11/27, Davenport 11/14).  
 15260 ASCENSION IS. BBC W.S.; 2025, "Letterbox" (Ware 11/28).  
 15270 BANGLADESH RB; \*1230-1300\* EE, G.O.S., //11900 inaudible (Bunn 11/11).  
 15273 URUGUAY SODRE; 2344 SS, tlks mentioning Uruguay (McNeil n.d.).  
 15275.0 MALAYSIA V. of Malaysia; 0624 EE, unusual opening (Hauser 12/5).  
 15280 USA KGEI; 2310-2312 SS, M tlc (Edelstein 11/27).  
 15300 FRANCE RFI; 1705-1725 EE to Africa (Wootten 11/2, Schipelliti 11/2).  
 15310 ECUADOR HCJB; 1700-1800 EE (Bernstein 12/4, Malone & Schip. 11/11).  
 15325 PAKISTAN RP; \*0500 Urdu, \*1327 Urdu; latter good and //9460 (Zilmer 12/1, Legge 11/28, Padula 11/7).  
 15325 UGANDA UBC; 1815-1830 EE, nx, cmntry, ID into FF (Schulman 12/4).  
 15330NF ISRAEL IBA; 1200 EE, nx, "Round & About", //15100 etc. (Zilmer 12/2).  
 15330 USSR RM; 1440-1500+ RR, beeps at 1500, fading (Poppin 11/28).  
 15345 GREECE VOG; 1215-1230 EE, nx, excellent signal (Camillo 12/5).  
 15345 NORWAY RN; \*1600 EE, tourism/recreation rpt. (Schwartz 11/28).  
 15345 TAIWAN VOF; 0106-0113 EE, commentaries (Poppin 11/21).  
 15349.4 LUXEMBOURG RTL; 1447 FF, cmntry, ads, ID (Schwartz 11/25).  
 15350 ZAIRE LVZ; 1900-0200 FF/Vernaculars (6 reporters); 1945-2009 FF, 2009 EE report from an ELBC correspondent stationed in Zaire, at the end of his report he thanked the Voice of Zaire for use of their transmitting time to beam the talk to Liberia (Troster 11/25).  
 15365 ETHIOPIA ETLF; 1914 IS, IDs in various languages inc. EE, I never ceased to be amazed at quality of this signal in N.Am. (Hauser 11/14).  
 15385 MEXICO RM; 1620-2305 SS, some EE IDs (6 reporters).  
 15390 PHILIPPINES FEBC; 0637 EE, localish nx ending w/ID "FEBC R. Int'l" by ann. w/distinctive accent; fanfare, fair (Hauser 12/5).

- 15410 ANTIGUA DW; 0015 GG, commentary (Richardson 11/10).  
 15410 RWANDA DW-Kigali; 1230-1240 EE, nx, ID, 1240\* (Grow 12/1).  
 15425 TAIWAN VOFC; CC into EE 0100-0200 (4 reporters).  
 15790 CHINA V. of the Malayan Revolution; 0632 songs, good (Hauser 12/19695)  
 17695 CYPRUS BBC-Limassol; 1500-1530 EE, Afr. Svc. (Jones 11/26, Gionet)  
 17700 GERMANY (EAST) RBI; 0650 EE to 0730 Hindi (Padula 11/9).  
 17710 USA VOA-Bethany; 2116-2118 GG, poor (Edelstein 11/27).  
 17720 FRANCE RFI; \*1515-1540 FF, nx in EE (Earhart 11/25, Jones 11/26)  
 17720 TAIWAN VOFC; 0631 CC, // much stronger 17800 in selective opening all VOFC freqs were gone at 0706 check (Hauser 12/5).  
 17800NF NORWAY RN; 1301 NN to India, ex-15345, good level (Padula 11/12)  
 17800 TAIWAN VOFC; 0618-0632 CC; new xmtr, 0631 story w/sound effects; strong sig., heavy fades; weird opening; // 17720 (Hauser 12/5).  
 17810 HOLLAND RN-Lopik; \*1400 EE, "Happy Stn.", f, //15120 (Zilmer 11/21)  
 17810 NETH. ANTILLES RN; \*2000+ DD (Poppin 11/11, Schipelliti 10/30).  
 17810 PHILIPPINES FEBC; 2345-0010 EE, mx, FE sports nx (W.Hoffman 11/25)  
 17815 ISRAEL IBA; 1400 Yiddish, tlk, mx, jammed slightly (Zilmer 11/28)  
 17825 JAPAN NHK; 0130+ EE to WCNA (Bryan 12/1, Luce 11/27).  
 17830 NETH. ANTILLES RN; 1830 FF, tlk (Grenier 11/14).  
 17840 ASCENSION IS. BBC W.S.; \*1500, "Radio Newsreel" (Fedor 11/21).  
 17855 LIBERIA VOA-Monrovia; 1700-1730 ?-lang, ID, mx (Grow 11/21).  
 17870 LIBERIA VOA-Monrovia; 1949-2000 EE, mx, nx, good (Alder 11/24).  
 17875NF SAUDI ARABIA BSKSA; 0730-0852 AA (domestic svc. relay), Koran recitations, ID (Padula-AUST 11/9, M.Willis-AUST). Dates pls Mike -  
 17880 GERMANY (EAST) RBI; 1415-1445\* EE, Chile politics, letter pgm, dx pgm (Beaudoin 11/15, Osterman 11/28, C. Hoffman 11/15).  
 17880 JAPAN NHK G.S.; \*0130 JJ (Bryan 12/3); 0707 EE, poor (Hauser 12/5)  
 17880 PORTUGAL RF; 1825 EE into PP 1830, nx, lk, mx (Green 11/19).  
 17885 CUBA RHC; 2015-2130 EE, nx & mx, Cuban folk songs, philately, question of the week (Brown 11/29, Malone 11/14, W. Hoffman 11/21)  
 17890 BANGLADESH RB; 0510-0515 EE, then into AA w/"Call to Prayer" thru to 0545\*. VOFC absent today on this freq. //15405 (Padula 11/2).  
 17890 TAIWAN VOFC; 0112 EE, contest "Lucky Listeners" (Poppin 11/22); 0120 "Let's Learn Chinese" (Luce 11/27).  
 17895 PORTUGAL RP; 1614 EE, nx, fair (Jones-MISS. 11/27).  
 17920 EGYPT R. Cairo; \*1315-1418 EE, W ann. ((Mackay 11/28, Osterman 11/21)  
 18190 URUGUAY La Señal indicará timesignal on SSB, GMT-2h (Hauser-TN).  
 20000 USA WVV; 1818 EE, let's log it while we can (Overcamp 11/21).  
 21470 UK BBC W.S.; 1050 EE, rel. pgm., poor, //21710 (Mackay 11/28).  
 21470 UNID 1815 SS?; very weak music audible here (Hauser 11/14).  
 21500 USA VOA-G'ville; 1400-1500 Georgian/Greek (Shridharani 11/27).  
 21525 HUNGARY R. Budapest; HH to 1030 EE for Aust., nx (Padula 11/8).  
 21535 SOUTH AFRICA R.RSA; 1110 EE to 1200 FF, good (Green 11/17); 1405-1448 EE, tennis match, topics (Shridharani 11/27, Fedor 11/21); 1646 EE, end of dx pgm into nx, good (Jones 11/13).  
 21555 SAUDI ARABIA (prob.) BSKSA 1410-1510 AA, tlk & mx (Cress 12/2). Hadley, per BBCMS 11/18/76 I think you tent. LIBYA is this -ed.  
 21580 FRANCE RFI; 1415-1425 FF, mx (Shridharani 11/27, Schwartz 11/20).  
 21610 UK BBC W.S.; 1058, weak, //21470 & 21710 (Mackay 11/28).  
 21625 ISRAEL IBA; 1400-1430 Yiddish, nx etc, all freqs heavily jammed: //17815, 17685, 15540, 15485, 15425, 11960, 11655 (Wooten 11/28);  
 21630 ITALY RAI; II 1320, special soccer coverage Italy vs. England (Hauser 11/17); \*1420-1435 II soccer coverage, //21510 (Mackay 11/21)  
 21640 NETH. ANTILLES RN-Bonaire; \*1658 DD, pgm to Afr. (Jones 11/13).  
 21665 PORTUGAL RFE; 1323-1340 Polish; however, had German ID at 1323 as "Radio Freies Europa" & pops, and at 1340 "The music studio of R. Free Europe brings you a selection of popular tunes" (Hauser 11/12)  
 21690 BELGIUM ORU/RTB; 1330 FF rel. pgm, //21460 (Hauser)  
 21710 UK BBC W.S.; 1050, 1500 (Mackay 11/28, Green 11/25).  
 21730 NORWAY RN; \*1500 EE/NN ID, Norwegian pgm, good (Mackay 12/5).  
 24024 COSTA RICA R. Reloj; 1704 SS, usual format, 4 x 6006, and not surprising, since 12012 does so well! (Hauser 11/13).  
 25605 ISRAEL IBA: only station currently scheduled for 11 m. (1000-1030 RR Saturday & Sunday): NOT heard as yet! (Padula-AUST).

And so another fine LR comes to a close, hi; I find that doing "D" section is a lot of work but also extremely enjoyable and a lot of fun. In this month's column I tried to fill in some of the stations which are widely heard but which somehow don't usually get included. Again, thanks to all, and I'm looking forward to seeing the loggings in the months ahead.

73s and the best, *Steve*



# FRENDX CREDITS

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JANUARY--1976

Oh, my heart! What a month! Thank you to 101 reporters! First time over the century mark since I've been doing this. Now that you've broken all your resolutions, let's see you report again next month! Here we go, typewriter!

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By the time you get to this part, the Vikings will already have won the SUPER BOWL, I'll have won \$5 on that game, and will be taking a vacation in the very furthest north part of Minnesota, doing alot of ice fishing and cross country skiing, and very little work. Then after 2 weeks, I suppose I'll get back to work with NASWA again. Keep them cards coming! '73's, Greg

# NASWA

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