



Forces ✓

# DX Monitor

Devoted Exclusively to  
Broadcast Band DXing

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## DX Test

Monday February 25 WZAL-1540, McDonough, Georgia, will test 0100-0215 EST with familiar music, frequent IDs, and tone sweeps from 500 to 1000 Hz at various times. Power output will be 2500 watts from 0100-0155 and 4 watts from 0155 to 0215. Reception reports are desired, especially on the 4 watt PSA power. Please listen and send a report to Mr. James W. DeVan, President and General Manager, WZAL, 12 North Cedar St., Suite 311, McDonough, GA 30253. A special QSL card is promised. This arranged via Kermit Geary.

## Get-togethers

February 16, 1985 is going to be a big day for DX get-togethers, with at least three that we know of. Why not? It's an ideal time for it. Not only is that Chinese New Year's weekend, but it's the day before postal rates go up, two days after Valentines Day, two days before President's Day, and four days before Ash Wednesday.

Honolulu, Hawaii. An all-band gettogether will be held at 1 p.m. HST at either the Kailua or the Kaneohe Library. Contact Dale Park at 808-523-1284 to find out which.

Los Angeles, California. The Southern California Area DXers (SCADS) will meet from 10 AM to 4 PM PST at the Village View School auditorium, 5361 Sisson Drive, Huntington Beach, CA. All DXers are welcome. For more information send an SASE to Don Schmidt, Apt A-2, 3809 Rose Avenue, Long Beach, CA 90807.

Seattle, Washington. This one will begin at 2 pm and last until whenever. It'll be held at the home of Bruce (that's me) and Evelyn Portzer, 6546 19th Avenue N.E., Seattle. Bring putluck junk food (liquid or solid), plus whatever you want for show and tell. For more info, call 206-522-2521.

## Odds and Ends

Gardiner Smith read in an article on Belize in the January 27 Washington Post that the Voice of America is "installing a new transmitter on 217 acres near the Guatemalan border" in Belize. This is the first he and I have heard of it, although the VOA has been working on a site in Costa Rica. Does anyone have any more information on the Belize relay (such as whether it's medium wave or shortwave)?

Craig Healy has published the second edition of the Top End Yearbook, which lists all the loggings reported to the Top End column during 1984. It's eight pages long and can be obtained by sending a 22 cent stamp and a couple of loggings to Craig. His address is 66 Cove Street, Pawtucket, RI 02861. Please write your complete return address very clearly on the envelope, as he will use it as your address label.



# Western DX Forum

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IRCA—Serving the Broadcast Band DX'er Since 1964

Editor: Ric Heald, 1632 J St., #3, Eureka, CA 95501

DEADLINES - WEEKLY ON TUESDAY/ANNIVERSARY ISSUE 12 MARCH

RANDY SEAVER, 1154 VIA TRIESTE, CHULA VISTA, CA 92011

Does somebody out there in IRCA-land have the NOAA A-index data from either Boulder Fredericksburg from 1978 on? I have a complete file of A-index values from about 1964 to 1978, but lost track in 1978. I think most of the data is available in the NRC DX News graphs, as a last resort. If you have the data handy, could you send me a copy (or I can copy it if you cannot).

As some of you know, the A-index (and the K-index values from which the A-index is calculated) for the previous day are broadcast by WWV at :18 past each hour. An A-index of less than 5 means that the earth's geomagnetic field was quiet, from 6-15 indicates unsettled, and above 15 indicates active. The auroral oval moves equatorward when the field is active, and poleward when the field is quiet. Because the auroral oval causes absorption of MW signals, the position of the oval can control TA and TP DX. In general, the more poleward the oval is, signals from northern Europe or Asia can be heard at higher levels. This is especially true in the months of August through November and February through April. The gap in December and January is due to the Winter Absorption Anomaly which causes additional absorption at mid-latitudes. When the field is active, the oval moves equatorward and can blank out Canadian and northern US signals, resulting in "auroral" conditions where Latin stations dominate the band.

Other DX'ers and I in southern California have heard Europeans, almost always when the geomagnetic field has been quiet for an extended period. In the Pacific Northwest, Europeans can be heard "through the donut hole" in the auroral oval. Richard Wood in Hawaii has been experiencing this with his Mediterranean stations.

The sunspot cycle is nearing its minimum, and extended periods of quiet geomagnetic field may be more frequent in the next two-to-three years. Hopefully it'll be more like the great years of '63-'66, and not like the not-so-good years of '75-'78. We may be able to predict the likely periods of good northerly DX by keeping an eye on the A-index, because the index tends to go up and down in 27-day cycles. 73.

DENNIS KIBBE, 1017 W. MANHATTAN DR., TEMPE, AZ 85282

Hope it's not too late to wish everyone a most Happy New Year! (Well, you're almost in time for Chinese New Year, hi-Rth.) Especially to you Ric, wherever you happen to be. I've read with interest your continued job hunting saga and your candid comments on the radio business.

I missed hearing the Ray Briem talk show DX special. Not for the lack of trying. By the time it came on here both KABC and KTMS, normally clear, were awash with interference. A good show, I hear.

Here's an idea for the next convention. How about a scavenger hunt? If the hunt were held here in Phoenix, some of the things on the list might be:

- 1) What is the frequency of Radio Viva?
- 2) What is Hacksaw's real name?
- 3) What station is Brother Larkins on? Might be fun, yes?

If you're looking for a second DX bulletin to subscribe to (your reading your favorite one right now, of course), there are three that I've enjoyed receiving: CIDX Messenger, published by fellow member Don Moman in Edmonton; DX Ontario, and DX'ers Calling, published by DX Australia. These three bulletins offer a good mix of loggings, news and technical articles plus a chance to meet some interesting people involved in our hobby. If you's like addresses for the above, drop me a SASE.

Well, as Jonathan Marks says, "Bye for now."

JOHN C. JOHNSON, 501 5th ST. WEST, BILLINGS, MT 59101

In the process of entering all my DX activities since 1962 into my computer, I discovered it's been too long since my last DX. So to start my 23rd year of DX I logged KASY 1210 Auburn, Washington.

Pat Martin (WDXR 12 January 1985) your logging of 1240 Billings is incorrect. KBMY went off the air over a year ago. Call is KUUS, most IDs are K-W-S.

Hopefully I'll have more DX to report in the next few months. Does anyone still trade record surveys?

\*\*\*ANNIVERSARY ISSUE DEADLINE - 12 MARCH\*\*\*

PAT MARTIN, P.O. BOX 843, SEASIDE, OR 97138

I was sorry to hear that KPMA 1400 Tacoma hit the dust (ex-KTNT). I don't like to see the old timers go, but with all the new stations on the air, it's getting harder for them to make it. Too many stations and not enough advertising \$\$\$\$. I have an idea we'll be seeing many more go off in the future. I presume they'll resurface under new ownership for another try.

Although the stations can't seem to make it, their market value sure does increase. KVAS 1230 Astoria (no FM, AM only) sold for \$500K a few years back. When I heard that I couldn't believe it. A GY'er in a town of under 10,000 (market of 35-40 thousand) sold for that much. Since that time I've seen many other stations both AM and FM go for plenty \$\$\$\$. As one radio station owner told me: "The only reason I bought into a station was to buy myself a lifetime job." Of course, he bought the station for \$20K and now I presume it's worth more than 10 times that amount. It used to be a daytimer, now fulltime.

QSL's of late: KCNR 1410 (ex-KPAM), KSKR 1450, KCVL 1240, KERR 750, KSAL 1150, JOJF 765, KPOW 1260, KLSY 1540 (ex-KJZZ) and XEMO 860. I just topped the 1,500 mark with now 1,503 QSLs. I've been collecting QSLs since 1965. I hate to even figure out how much postage I spent through the years, hi. (Based on your records alone, the post office doesn't need a raise, hi-Rth.)

W. GEORGE ELLIOTT, P.O. BOX 312, PENTICTON, BC V2A 6K4

Well, looks as if the winter DX bug has bitten me as I've been looking forward to each weekend and the hour-long drive from Penticton to the DX shack in Kelowna. The weekend of 06 January was no exception and I got in the mood by listening to KGW 620 on the car radio while speeding through Summerland (0223 PLT 05 January in case anyone asks, hi), which I haven't heard in years thanks to CKOV 630. (And how much was the speeding ticket from the RCMP?—hi-Rth.) Needless to say, it was a bit of a treat until CKOV started to splatter. So I started pushing buttons and caught a little bit of the "new" light-rock, less-talk CFUN 1410. I was disappointed as I had grown up in Kelowna listening to 14 C-FUN in the mid-'70s when they used to rock with jocks who yelled and did strange things. I felt like I had lost a friend. The station that I had always wanted to work at was now growing and changing just as I had through the years. I hope it works for them. . . although I won't be listening as much.

Anyway, the DX that night wasn't as exciting as I had hoped. I've had a tentative CHQR 810 for the past month when I first noted someone under KGO. KGO has never let anyone on the frequency for as long as I can remember, mind you, I no longer have the loop I used on the DX-160 a few years ago so I suffer with a short longwire. Also a tentative CKER 1480 when I heard some CJVB-like program on the frequency. I've been trying for this one ever since they went on the air. Maybe next time.

The DX I did catch was the tail end of some SRS the morning of 06 January. An unusual thing for me to be near a radio at that time and I'm glad I was as I sat on 1550 for a few minutes trying for the KNTR call and got KXXR instead, which is new on this end, and was never heard on its old frequency of 1440. I did get KNTR as well after trying for a long time. The surprise of the morning was CJOI 1440, so I was pleased with my first DX of 1985. I don't know when I'll be in Kelowna again, but you can bet I'll be twisting the dials when I'm there. 3's de WGE.

RIC HEALD, 1632 J ST. #3, EUREKA, CA 95501

Well, put me down as v/s at KRED (and KPDJ also). It fell into my lap and I typed up my first verie. . .to Finland!! Sent a cassette, and DJ whom I follow was on tape. Typical non-DX'er response, "You mean I have to listen to all that noise"? Was I embarrassed when she ID'ed the song title before I did, hi. Then wiped out by, who else, KAAR.

Speaking of which, our FCC lawyer finally put the screws to KAAR. They have reduced night power and once again folks in our primary nighttime coverage area can hear us QRM-free.

Also, through 20 February, I'm working Monday, Tuesday and Wednesday from 7PM to 1AM s/off (PLT) in addition to Sunday. If you hear me, call, I might even put you on the air. . .prepaid calls, of course; low budget, hi.

Finally nabbed the new KHVY 1030 Folsom. Their signal is awesome. Almost a perfect right angle from KTWQ. And an update on mystery C&W on 980, heard what sounded like a dual city ID which included Moab, Utah. Now there's a 980 in Richfield clear across the state, but Moab? And calls sounded like KUTI. Not easy, folks, with KFVB like a semi-local at times. Did I miss another call change or new station? Looked through many DXMs, but no luck. And, while driving home from work 29 January around 0115 PST, punched up KGO

and noted what sounded like hets. So slowly tuned up toward 850 and heard lots of hets. Of course, Murphy's Law kicked in and wouldn't you know it, fired up the FRG and, of course, no hets.

WGE, I'm find your hunt for CHQR a bit amusing. Come on down to Eureka, 270 miles north of KGO's transmitter, and I'll let you listen to plenty of CHQR, at times even with the loop pointed at KGO.

Finally, Anniversary issue (then I'll shut up). Deadline is 12 March. Now last year was a record for WDXr forums - 44! This year I'm aiming for 50. Start sending them now as I'm typing a separate column for that. If you've never sent a forum before, it's easy. Even if it's to introduce yourself, a couple of lines regarding your interest in the hobby, your equipment, etc. Just a few lines is all you need. And what are the boundaries for WDXr? West of the Mississippi (US) Manitoba west (Canada) as well as the Orient and Oceania. So come on Australia, New Zealand, Japan, Okinawa, etc. I sure would love to hear from you. Let's make this the biggest Anniversary issue ever. There's a lot of new members out there, so come on, get your feet wet, even if it's just a little.

That's it this time around. Best of DX and 73 de Rth. .

## EASTERN DX FORUM

RICHARD EVANS  
P.O. Box 1204  
NORTH WALES, PA 19454

Niel Wolfish, 706-3900 Yonge Street, Toronto, Ontario M4N 3N6

Getting fairly settled in at the new residence. This is now what I'd call a prime DX location. Lots of noise here with fluorescent lights and reostats. Of course, the building structure itself doesn't help. One minor problem alleviated the other day, as I discovered the battery terminal on the Space Magnet had broken off. A short while later, after fetching the soldering iron, the problem was solved. Now if only I'd hear something interesting. All, however, is not lost...I can still hear the Cuban on 640! Apparently I missed out on some decent Latin American DX around New Years. My friend Mike Bolitho tells me that just about every non-local channel was filled with Colombians or Venezuelans on the weekend before New Years. Mike was too busy logging the Short Wave Peruvians to pursue the other stuff. I missed out on the annual DX'pedition to Williamsford, as I was down in Texas with former IRCA member Douglas Miske visiting Austin and Metro Houston. Had the opportunity to visit with Pete Nolan, and sit in on his shift at KGBC-1540 in Galveston. 73s.

John Santosuosso, P. O. Box 1116, Highland City, Florida 33846

I read with interest C. M. Stanbury's comments in Eastern DX Forum. I appear to owe Stanbury an apology. The information which he has supplied and that furnished by another recipient of a WUMS QSL leads me to believe that Stanbury's was probably the last WUMS QSL issued by David Thomas to anyone. Kermit Geary's verification, the one mentioned in my article, appears to be the last issued for reception of the original WUMS transmitter rather than the final verification of any WUMS reception. However, on two other points I must disagree with Stanbury. David Thomas never mentioned to me the amount of the settlement he received from Electronics Illustrated. From what he did say it was obvious that he was extremely pleased with the settlement and the amount. This was the point I sought to convey in the article. Since Stanbury has indicated the amount of the award, I will leave it to others to decide for themselves if David's satisfaction was justified or not. Regardless of their conclusions, I do not feel I am guilty of a "factual error" in regard to this matter. Stanbury also refers to my being "intricately involved" with S9. That involvement was limited to my writing approximately eight columns for the magazine. When payment was longoverdue, and no one connected with the magazine would give me an explanation, I terminated my column. Since Stanbury wrote for S9 longer than I did he would seem to have been more "intricately involved" than I ever was.

Bill Harms, 8327 Perri Drive, Savage, Maryland 20763

This Forum will be a continuation of my travelogue of my visits to the various broadcasters in Seoul, South Korea. This time I would like to give an account of my visits to MBC. The first problem that I had was to try to find the correct place to go to. I was trying to find someone to help me update the MBC (Munhwa Broadcasting Corp.) listing in the WRTM '85. There were two buildings in different parts of Seoul that I could choose from. One near downtown Seoul and the other one near the KBS complex at Yo' u'ido, in South Seoul. Well, I chose the downtown building. I must have talked to around 10 people (each time explaining what I wanted) and finally the last guy I talked with told me to go to the International

Relations Department at the other building. So that's where I went to. I was escorted up to the 11th floor to the International Relations Department and there I met the head of the Depart. At first he didn't understand what I wanted until I showed him a copy of the 1984 WRTH. Then he showed me some older copies of WRTH he had on his shelf. His English was very good, so we carried on a conversation in both Korean and English. Anyway he said that he had just returned from an Asian Broadcasting Union conference (in New Zealand, I believe) and he said that the other members couldn't understand that MBC was independent from KBS and the only relationship that KBS had with MBC was that KBS held the biggest share of stock. I didn't understand that exactly but he wanted me to tell "the radio industry" about it. He handed the WRTH information to a subordinate who corrected and added to it. (It took him a couple of days so I made two trips in all.) They were reluctant to give me a tour of their studios (for security reasons, I assume). I also inquired about verifications. He didn't seem to know what I was talking about and said that MBC Seoul doesn't issue QSL cards. I think that perhaps another office handles verifications and he wasn't aware of it. (More details in an upcoming article.) All in all, they were very friendly and helpful. However I was disappointed because I couldn't take a full tour. Perhaps next time. Next week I will talk about my trip to CBS Christian Broadcasting System. Ch'il-ship-sahm. Ahnnyoung!

Karl J. Zuk, 154 Old Post Road North, Croton-on-Hudson, New York 10520  
(Concluded from last week)... In New York City, the last surviving rocker, WNBC, has mostly talk in morning and afternoon drive times with DJs Don Imus and Howard Stern. These guys are really giving AM a bad name. Most of their programs are devoted to jokes relating to homosexuality or sexual degradation of women. We are not talking about innuendo here. These shows sound like a verbal version of Penthouse magazine mixed with all the class of immature adolescence. Some people I talk to find hearing profanity and sexual language on the radio amusing at first, and will listen for a month or so, but after awhile the novelty wears off and it begins to sound like children with an open mike in a radio station. AM or radio in general has no future if this goes much farther. Are we going to graduate to full fledged cursing and angry slurs against people due to their race or sex or beliefs, just to be more outrageous than the other stations on the dial? What is going to happen when DJs run out of curse words? Will we see humiliation or violence take its place? How about drawing audiences in with quality like All Things Considered and Prairie Home Companion on public radio? It really is possible to do. I think these shows are great; I just wish there were more of them. Whatever happened to folk music on the radio, or classical or jazz? There are a lot of possible alternatives to cursing on the air for ratings. I hope someone discovers them soon! Finally, I mourn the loss of XETRA, Tijuana turning to oldies. This station made owning a convertible in Southern California so much better. I mourn this loss as much as I would the death of someone like Dan Ingram of WABC fame. It will never be the same! 73s.

Richard C. Evans, P. O. Box 1294, North Wales, Pennsylvania 19454

In looking back over Karl Zuk's comments about broadcasting and the "joking", I wonder if this isn't one big reason why the "MYL" and easy-listening stations are doing so well and apparently being so popular these days. The number one station in the Philadelphia book is WEAZ-101.1. From what I hear at work from the young kids (ages 25-29), the tasteless jokes are on FM around here. I heard it because it was the main topic in the mornings, and just hearing about it grew old after the first day. When I first started working in Lansdale back in the summer of 1978, I had a 60 minute drive up from Havertown (near Upper Darby), and I used to listen to WPEN. I enjoyed the music but couldn't stand the DJ's patter which was almost as bad as what Karl described above. The worst part was that I think the DJ at that time was an WRC member! I was stuck to AM in those days in the car, but the next car I got I made sure had an AM/FM radio in it. I don't know about others but when I'm stuck in heavy traffic I like to listen to relaxing music I can sing to, not to a constant chatter from some DJ. Traffic information is nice, but then give me music. I wasn't able to check, but I hope some of you were able to get some good catches from the bad weather in the midwest last weekend (1/19-21). I had a hard time trying to move some loads from the midwest (Indiana and Ohio) due to trucks freezing up from the cold. I had one driver two days late because the fuel in his tanks jelled up while he was going down the road near Columbus, Ohio. That's cold! Gotta run. See you next week. PTL.

COMPUTER-AIDED ANTENNA TUNER DESIGN

Mark Connelly -- WALION DX Labs -- 31 DEC 1984

Numerous passive and active receiving-antenna tuners have been developed recently: most embody the idea of simplicity and ease of construction. Yaesu, MFJ, McKay-Dymek, and Grove have all offered such devices commercially to shortwave and medium-wave DX enthusiasts. A common practice is to use one tuning capacitor (often the common 10 to 365 pF air-variable) and numerous inexpensive molded inductors generally mounted on a ganged rotary switch which selects the various tuning ranges. The use of inductive-dividers allows the impedance-transfer from high (at the tank circuit) to low/medium (at the tuner's output).

Although higher Q and greater output may sometimes be obtained with a tuner using hand-wound coils (having link windings and tapped main windings) and using two or more variable capacitors (e. g. Bob Foxworth's excellent passive tuner of early '70s vintage), experience has shown that even the best passive tuner cannot match the Q and gain of an active, regenerative tuning unit.

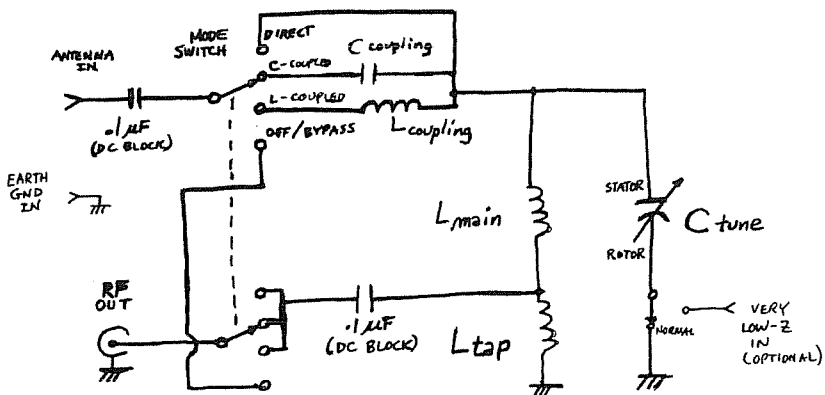
Aside from specialised cases demanding super Q and gain, there is a considerable need for moderate Q tuners having the benefits of low cost, simplicity of construction, and ease of operation.

The urban DXer, for instance, has a great difficulty with spurious responses (resulting from the poor strong-signal handling characteristics of many of today's receivers) when any wire more than a few feet in length is connected to the antenna jack. "Spurs" noted may be caused by AM, FM, & TV stations as well as by local utility, amateur, & CB transmitters. Even in rural locations, some receivers may generate images & spurs (chiefly because of overloading by potent international shortwave broadcast stations & RTTY/FAX/CW utility stations).

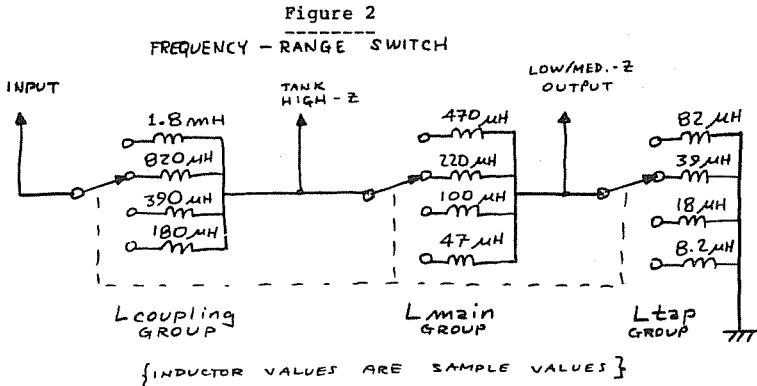
A tuner (pre-selector) goes a long way to eliminate these problems. "De facto" gain is accomplished even with a somewhat-lossy, loosely-coupled passive tuner at urban sites because considerably-longer aerials may be used before spurious signals become a problem. With an active tuner of relatively simple design, aerials as short as car whips can provide worthwhile DX: this is an important consideration for the space-limited DXer in the city.

Two basic designs were chosen to be modelled for computer-analysis - one passive and one active. The passive design is represented by the schematic of Figure 1.

Figure 1



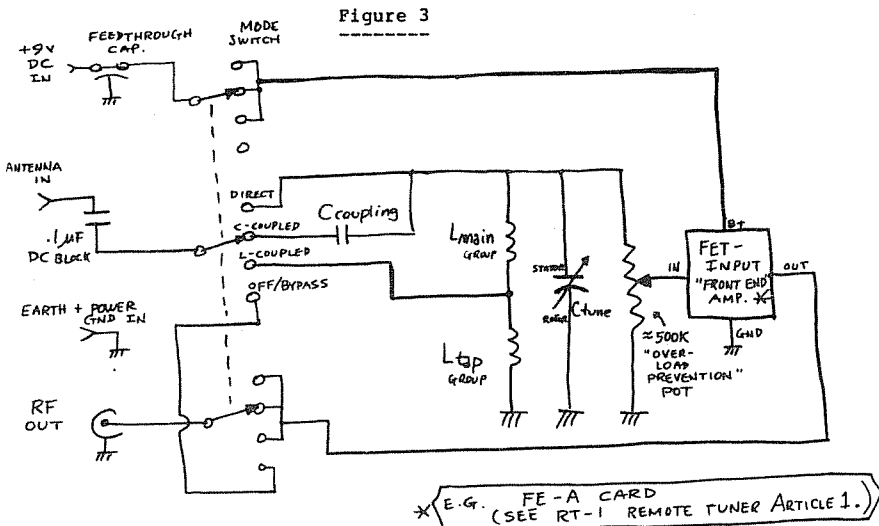
The coils shown ( $L_{\text{coupling}}$ ,  $L_{\text{main}}$ , &  $L_{\text{tap}}$ ) are actually coil-groups mounted on a rotary switch. Figure 2 illustrates this idea.



Experimentation has shown that good passive-tuner results are obtained with a wide variety of input antenna lengths and output load impedances if the coupling inductor (for loosely coupling inductively-reactive antennae) is approximately 3.5 to 5 times the value of the main inductor and if the main inductor is about 5 to 8 times the value of the tap (output) inductor. Increasing these ratios results in greater signal loss (although, perhaps, higher Q) whereas decreasing the ratios reduces the varieties of input & output impedances with which the tuner will work.

The coupling capacitor chosen (for loosely coupling capacitively-reactive antennae) should be about 7% to 20% of the maximum value of the tuning capacitor. 47 pF is a good overall coupling-capacitor choice to be used with a 10 to 365 pF tuning cap.; you might want to go a bit lower for active tuner applications (e. g. 33 pF) and a bit higher (e. g. 62 pF) for longwave ( $F < 500$  kHz) passive tuners.

Figure 3 illustrates the active tuner circuit being considered for computer-aided design. Note that the tap inductor group plays an input, rather than an output, role (no separate "Lcoupling" group is used).



## The TUNER program - how it works:

In modelling the circuits of Figures 1 & 3, several assumptions were made:

1. We know the overall frequency range desired.
2. We know the minimum & maximum capacitance value of the variable capacitor to be used.
3. Entry of stray capacitance should be possible. (This is a ballpark figure entered to account for capacitance from tank-high to chassis ground caused by component layout & wiring.)
4. We know the value of the input coupling capacitor (typically 12% of the tuning cap.'s maximum value).
5. Inductors chosen by the program should be standard-value components (e. g. 10 uH, 220 uH). Coupling inductors are to be approximately 4 times the values of the corresponding main inductors; main inductors are to be approximately 6 times the values of the corresponding tap inductors.
6. Frequency-ranges should overlap slightly from one coil-switch position to the next even with worst-case input & output loading conditions. Nevertheless, the program should endeavour to use the fewest number of inductors and coil-switch positions required to make a working tuner design.
7. Desired output should be written to a text file on disk; such a file could be edited with suitable word-processing software (e. g. EDT), merged with other files, printed to paper or CRT, etc. [For those without this file-management facility, minor modification of the program will enable direct output to a lineprinter].
8. Desired output should display all input parameters (1, 2, 3, & 4 above) and the output of inductor values chosen for active & passive models (accompanied by full frequency-range data for L-coupling & C-coupling).
9. Minimum & maximum tuning capacitance should be adjusted somewhat
  - (a) to allow for slight movement of the capacitor beyond the rated end-of-range frequency position, and
  - (b) to compensate for variations in actual tuning capacitor values from their published specifications.The program's formula calculates a "useful" range of  $((365-10)*0.1)+10$ , or 45.5 pF minimum to  $(365*0.8)=292$  pF maximum for the standard 10 to 365 pF variable capacitor. Such adjustment reduces the likelihood of gaps between tuning ranges.
10. Worst-case minimum frequencies are those made the highest by the characteristics of the input & output impedances; worst-case maximum frequencies are those made the lowest by the characteristics of the input & output impedances.

Simple circuit math shows that, in the passive tuner case:  
Worst-case min. freq. (L-coupled) occurs with a low-Z (approx. shorted) input & output.  
Worst-case min. freq. (C-coupled) occurs with a high-Z (approx. open) input & a low-Z (approx. shorted) output.  
Worst-case max. freq. (L-coupled) occurs with a high-Z (approx. open) input & output.  
Worst-case max. freq. (C-coupled) occurs with a low-Z (approx. shorted) input & a high-Z (approx. open) output.



For active tuners, output impedance is not an important frequency-range-determining consideration because of the buffering provided by the FET-input amplifier circuit. Input (antenna) loading sets the worst-case conditions for the active tuner:

- Worst-case min. freq. (L-coupled) occurs with a low-Z (approx. shorted) input.
- Worst-case min. freq. (C-coupled) occurs with a high-Z (approx. open) input.
- Worst-case max. freq. (L-coupled) occurs with a high-Z (approx. open) input.
- Worst-case max. freq. (C-coupled) occurs with a low-Z (approx. shorted) input.

11. The program should be written in a manner that, upon examining the remarks in the listing, circuit-math formulae & design considerations used should be evident to anyone who has even a relatively-limited electronics background.

#### Program Listing

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The following program is written in DEC PDP-11 BASIC-PLUS-2 V2.1-00.

(begin listing)

```

1 PRINT\PRINT "TUNER.B2S"\PRINT"Receiving Tuner Design Aid"
2 PRINT "WALION DX Labs / Software Division / 31 DEC 1984"\PRINT
3 DIM V(12),L(12),F(4),C(4)
4 K=159154.94\REM (1000000/(2*PI))
5 U2$=""
6 FOR I=1 TO 72\U2$=U2$+"*\NEXT I
12 REM ** STANDARD INDUCTOR VALUES **
13 V(1)=1.2
14 V(2)=1.5
15 V(3)=1.8
16 V(4)=2.2
17 V(5)=2.7
18 V(6)=3.3
19 V(7)=3.9
20 V(8)=4.7
21 V(9)=5.6
22 V(10)=6.8
23 V(11)=8.2
24 V(12)=10
26 PRINT\INPUT "DATA OUTPUT FILE NAME";S$
27 OPEN S$ FOR OUTPUT AS FILE #1%
28 D$="A"
29 J=13\M=6\T=0\Z=0
30 IF D$="P" THEN PRINT #1,U2$\GO TO 50
32 INPUT "Minimum frequency, kHz";FMIN
33 INPUT "Maximum frequency, kHz";FMAX
35 INPUT "(40 pF typical) Stray C, pF";CS
37 INPUT "Input coupling capacitor, pF";CC
38 CSH=CC+CS\REM shunt-C for C-coupling
39 INPUT "Minimum value of tuning capacitor, pF";CMIN
40 INPUT "Maximum value of tuning capacitor, pF";CMAX
41 REM ++ Practical min. Ctune will be set to CMIN+(0.1*(CMAX-CMIN)) +++
42 CMIN2=CMIN+(0.1*(CMAX-CMIN))
43 REM +++ Use 80% of maximum tuning capacitance +++
44 REM +++ to account for component variation. +++
45 CMAX2=0.8*CMAX
46 C(4)=CMIN2+CS\REM min. equiv. C (L-coupling)
47 C(2)=CMIN2+CSH\REM min. equiv. C with shorted input (C-coupling)
48 C(1)=CMAX2+CS\REM max. equiv. C with open input (C-coupling)
49 C(3)=C(1)\REM max. equiv. C (L-coupling)
50 GOSUB 1000\REM get next L value
55 GOSUB 1950\REM calculate frequencies
57 IF Z=0 AND F(3)<FMIN THEN 50
59 IF Z=0 THEN GOSUB 3000\GO TO 50
61 Z=0\A1=F(2)\A3=F(4)\GOSUB 2000
62 IF F(2)>FMAX THEN 500

```

```

63 GOSUB 1000
65 GOSUB 1950
66 IF Z<>0 THEN 61
67 IF F(1)<A1 AND F(3)<A3 THEN Z=0\GO TO 63
69 GOSUB 3000\GO TO 63
100 GO TO 50
500 IF D$="A" THEN D$="P"\GO TO 29
510 PRINT #1\PRINT #1,U2$\PRINT #1,U2$\CLOSE #1$
520 PRINT\Q=0\INPUT"(1 = YES) Generate another file";Q
540 IF Q=1 THEN 26
560 GO TO 10000
1000 REM ##### Inductor Table Subroutine #####
1020 J=J-1
1030 IF J=0 AND M=-2 THEN 500
1040 IF J<1 THEN J=J+12\M=M-1
1060 L=V(J)*(10^M)
1100 RETURN
1500 REM ##### Tap & Coupling Inductors Subroutine #####
1520 G=J\M=M
1540 IF G<10 THEN G=J+3\M=M-1\GO TO 1580
1560 G=J-9
1580 L2=V(G)*(10^M)\REM Tap L
1600 G=J\M=M
1620 IF G<6 THEN G=J+7\GO TO 1660
1640 G=J-5\M=M+1
1660 L3=V(G)*(10^M)\REM Coupling L
1680 RETURN
1800 REM ##### Design Parameter Print-out Subroutine #####
1805 PRINT #1
1807 IF D$="P" THEN 1880
1810 PRINT #1," This is data file: ";S$
1815 PRINT #1," ( ";FMIN;" to ";FMAX;" kHz)"\PRINT #1
1820 PRINT #1," The following calculations are based upon:"
1840 PRINT #1," Tuning C = ";CMIN;" to ";CMAX;" pF"
1860 PRINT #1," Coupling C = ";CC;" pF * Stray C = ";CS;" pF"
1870 PRINT #1\PRINT #1," Active Configuration"\GO TO 1900
1880 PRINT #1," Passive Configuration"
1900 PRINT #1
1912 U$=" Main L          Freq.Range, kHz          Freq.Range, kHz          Tap L"
1913 IF D$="P" THEN U$=U$+"          Coupling L"
1914 PRINT #1, U$
1915 U$="          uH          (C coupling)          (L coupling)          uH"
1916 IF D$="P" THEN U$=U$+"          uH"
1917 PRINT #1, U$
1920 UU=3+LEN(U$)
1921 U$=""
1922 FOR I=1 TO UU
1923 U$=U$+"-"
1924 NEXT I
1930 PRINT #1, U$
1940 RETURN
1950 REM ##### Math Subroutine #####
1952 IF D$="A" THEN 1970
1955 REM
1957 F(1)=K/((L*C(1))^5)\REM
1959 F(2)=K/((L*1.2*C(2))^5)\REM
1961 F(3)=K/((L*0.8*C(3))^5)\REM
1963 F(4)=K/((L*1.2*C(4))^5)\REM
1965 GO TO 1980
1970 REM
1972 F(1)=K/((L*1.2*C(1))^5)\REM
1974 F(2)=K/((L*1.2*C(2))^5)\REM
1976 F(3)=K/((L*C(3))^5)\REM
1978 F(4)=K/((L*1.2*C(4))^5)\REM
1980 RETURN

```

```

2000 REM ##### Main Print-Out Subroutine #####
2010 IF T=0 THEN GOSUB 1800
2020 T=1
2030 GOSUB 1500
2040 X=L\GOSUB 2300
2050 U$=U1$
2060 U1$="#####.# 'L#####.#"
2070 U$=U$+U1$+U1$+" "
2080 X=L2\GOSUB 2300
2090 U$=U$+U1$+" "
2095 IF D$="A" THEN 2130
2100 X=L3\GOSUB 2300
2110 U$=U$+U1$
2120 PRINT #1% USING U$, L;F(1);"-";F(2);F(3);"-";F(4);L2;L3\GO TO 2200
2130 PRINT #1% USING U$, L;F(1);"-";F(2);F(3);"-";F(4);L2
2200 RETURN
2300 REM ##### Number-Formatting Subroutine #####
2310 U1$="##### "
2320 IF X<10 AND X>=1 THEN U1$="#####.# "
2330 IF X<1 AND X>=.1 THEN U1$="#####.##"
2340 IF X<.1 THEN U1$="#####.###"
2370 RETURN
3000 REM ##### Drop-Back Subroutine #####
3020 Z=Z+1
3040 IF J<11 THEN J=J+2\GO TO 3100
3060 J=J-10\M=M+1
3100 RETURN
10000 END

```

(end of program listing)

Sample Output File Print-Outs

This is data file: LWCOILS.TXT  
( 140 to 560 kHz)

The following calculations are based upon:  
Tuning C = 10 to 365 pF  
Coupling C = 62 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
3900	127.7 - 191.6	139.9 - 251.6	680
1800	187.9 - 282.0	205.9 - 370.3	330
820	278.5 - 417.8	305.0 - 548.7	150
390	403.8 - 605.8	442.3 - 795.6	68

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
5600	116.7 - 159.9	130.5 - 210.0	1000	22000
3300	152.1 - 208.2	170.0 - 273.5	560	12000
1800	205.9 - 282.0	230.2 - 370.3	330	6800
1000	276.2 - 378.3	308.8 - 496.9	180	3900
560	369.1 - 505.5	412.7 - 664.0	100	2200
330	480.8 - 658.5	537.6 - 864.9	56	1200

\*\*\*\*\*  
\*\*\*\*\*

This is data file: MWCOILS.TXT  
 ( 475 to 1900 kHz)

The following calculations are based upon:  
 Tuning C = 10 to 365 pF  
 Coupling C = 56 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
390	403.8 - 618.5	442.3 - 795.6	68
180	594.3 - 910.4	651.1 - 1171.1	33
82	880.5 - 1348.8	964.6 - 1735.2	15
39	1276.8 - 1955.8	1398.7 - 2516.0	6.8

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
470	402.9 - 563.4	450.5 - 724.8	82	1800
270	531.6 - 743.3	594.3 - 956.2	47	1000
150	713.2 - 997.3	797.4 - 1282.9	27	560
82	964.6 - 1348.8	1078.4 - 1735.2	15	330
47	1274.1 - 1781.6	1424.5 - 2291.9	8.2	180
27	1681.0 - 2350.5	1879.4 - 3023.9	4.7	100

This is data file: TBCOILS.TXT  
 ( 1575 to 6300 kHz)

The following calculations are based upon:  
 Tuning C = 10 to 365 pF  
 Coupling C = 47 pF \* Stray C = 40 pF

Active Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH
33	1388.0 - 2197.2	1520.5 - 2735.2	5.6
15	2058.8 - 3250.9	2255.3 - 4057.0	2.7
6.8	3057.8 - 4840.2	3349.6 - 6025.5	1.2
3.3	4389.4 - 6948.1	4808.3 - 8649.5	0.56

Passive Configuration

Main L uH	Freq.Range, kHz (C coupling)	Freq.Range, kHz (L coupling)	Tap L uH	Coupling L uH
39	1398.7 - 2021.1	1563.8 - 2516.0	6.8	150
22	1862.3 - 2691.0	2082.1 - 3349.9	3.9	82
12	2521.5 - 3643.6	2819.1 - 4535.8	2.2	47
6.8	3349.6 - 4840.2	3745.0 - 6025.5	1.2	27
3.3	4808.3 - 6948.1	5375.9 - 8649.5	0.56	12

# WESTERN DX ROUNDUP

Nancy Hardy  
2301 Pacific Avenue  
Aberdeen, WA 98520

All times are  
Eastern Local

Phone for hot WDXR tips: (206) 532-6827 till 10pm(PLT)

DEADLINES: Tuesdays 2/12, 2/19, 2/26, 3/5, 3/12 (Anniversary Issue!)

## REPORTERS FOR THIS ISSUE:

- (TRH) Timothy R. Hall-350 G St. P-1-Chula Vista, CA 92010  
DX150B, longwire
- (MH) Mike Hardester-401 Birchwood Court-Modesto, CA 95350  
R-1000, R. West Active
- (BH) Bill Hardy-2301 Pacific Ave.-Aberdeen, WA 98520  
PRG-7, SM-1
- (NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA 98520  
PRG-7, SM-1
- (PM) Patrick Martin- P.O. Box 843-Seaside, OR 97138  
SP-600JX, term. 200' NE, 1500' east Beverage
- (DF) Dale Park-2253 Kanealii Ave.-Honolulu, HI 96813  
Sony ICF-6700W
- (bp) Bruce Portzner-6546 19th NE-Seattle, WA 98115  
HQ-180A, 4' loop, car rx
- (PT) Pete Taylor-2614 Jackson Street-San Francisco, CA 94115
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118  
GE Superadio, GE long-range portable, SM-2
- (JW) John Wilkins-4385 Hoyt St. #205-Wheat Ridge, CO 80033  
Kenwood R-1000, 4' box loop

## OF SPECIAL INTEREST:

- 730 KTOX ID, Boise per call-to KTOX on 1/18, moved to 730 kHz from 740 kHz "a few weeks ago." Still 500w daytime only, has CP for 1kw daytime and not 10kw as reported by PA in 1/12 WDXR. Don't know if they have a PSA, though. (RW-CA) (Most 730 stations do have PSA.--NH)
- ?KTOX?+1/21 0920 tent. well w/KRVC in KCB3-740 null w/OM-YL (no offense, ladies!) nx team, sports at 0920 w/talk of Super Bowl. Format fits KTOX, but if they don't have a PSA, shouldn't s/on in Jan. until about 1015. (RW-CA)
- 870 CKIR BC, Invermere 1/23 2230 ID (w/ment. of all the stns on network), PSA. 2239 had sports & ads for Golden, BC, then DJ talk. Fair to good w/KIFV, KUUY & KORD nulled. Must have come on the air quite recently. (NH-WA)
- 1030 KHVY CA, Folsom 1/25 1918-2005 w/C&W mx. Many "The Country Highway, K-H-W-Y" slogans. 1949 DJ talk about this being the first day for the stn to be on the air. Had anct "...after sunset we will temporarily drop our power to below normal nighttime wattage of 1000 watts so that we may put the finishing touches on our transmitting facilities..." Excellent w/KMAS nulled. (NH)
- +Started on 1/25. Very poor days around San Francisco. Quite weak & suffers much KIQI-1010 splatter. KTWO still way on top at night. (PT-CA)
- +1/27 1031 excellent w/C&W mx, "K-H-W-Y" & "Country Highway" slogan. KMAS (on night power) totally nulleable, and KHVY if nulled is equal to KMAS! (EM-WA)
- 1290 KNLS KS, Pratt 1/22 1820 market report, hog prices; ad for a store in Medicine Lodge. Good sig w/splash from KBRQ-1280. (JW-CO)
- \*\*\*\*\*
- 530 ?WAD556? CA, Coronado 1/20 0415 poor. Coronado Police Dept. TIS stn w/4 minute loop tape w/locations of Police, Fire, Public Works, hospital, library, senior citizen center, etc. Also heavy traffic times, freq. for ham emergency net. Rough copy, so not sure of call letters. (TRH-CA)
- TIS WA, Tacoma 1/20 while driving thru Tacoma, noted signs for traffic info on Interstate 5 southbound. Lights not flashing, so only an open carrier w/some phone noise noted. Located several miles north of the one on 1610 (see below). (BH-WA)
- +1/23 TIS hrd fair w/"This is message #5. This is a test of the City of Tacoma traffic information radio system," message repeated, 0359. Thanks bp for tip. Western WA is sure getting crowded w/TIS stations. They also have a 10w on 1610, south of Tacoma. (PM-OR)

- 560 \*KSFO\* CA, San Francisco 1/21 0535 noted w/"hum" tone. (RW-CA)  
(KSFO)+1/12 0430 off on rare weekday SP. (RW-CA)
- 590 KTHO CA, S. Lake Tahoe hrd 1/23 1051-1100 w/local ski reports,  
CBS News Break, local spots, ID on hour "Seven degrees ???  
Lake Tahoe. K-T-H-O, South Lake Tahoe. It's eight o'clock."  
Into CBS nx. Fair w/increasing QSB/QRM. (MI-CA)
- KLSN WA, Spokane 1/20 hrd well during the day as usual, off 1500'  
Beverage, nulling KUON. Pop mx & "590 K-Listen" ID, full ID  
at 1600. Ex-KHQ. (PM-OR)
- 600 KLZZ CA, San Diego 1/23 fair w/o CJOR, CFQC w/Larry King Show at  
0359.30 "KLZZ, San Diego AM-600." (PM-OR)
- 620 KIPA HI, Hilo 1/6 & 1/13 0200 still noted airing "Nighttime  
America" program so I guess "AT40" has been rescheduled. (DP)
- 650 WSM TN, Nashville 1/21 0100 ID & nx o/u nulled CISEL. First time  
hrd since CISEL moved. (bp-WA)
- 660 KPAR AK, Fairbanks 1/15 0454 strong in CFRR null w/ID. First time  
hrd since CFRR hit the air. (RW-CA)
- 710 KMPC CA, Los Angeles added "The Larry King Show" per the 1/7  
program. (DP-HI)
- 730 KURL MT, Billings 1/20 hrd well w/relig. mx, temp of 6 degrees at  
1755, ID and cont. relig. mx. Hrd while looking for Boise,  
which there was no sign of. (PM-OR)
- KRVC OR, Medford 1/21 0930 well on top of CKLG w/"AM 73, KRVC"  
jingle. (RW-CA)
- 760 (KFMB) CA, San Diego 1/21 0311 totally off. (RW-CA)  
(KCU) HI, Honolulu 1/14 0620 went off briefly during split-second  
power outage (and Ira Pistell show) but programming did not  
resume until 0624. (DP-HI)
- WJR MI, Detroit 1/20 0341-0347 fair w/Lou Rawls song, updates from  
the WJR Weather Center, PSA's, promos. Local KFMB off 0300-  
0700. (TRH-CA)
- 830 ?KABN? AK, Long Island-Big Lake 1/15 0431 tent. w/soft-spoken OM DJ,  
Bob Seeger song, no ads, long songs, which fits their  
programming philosophy. Details confirmed via phone call to  
stn, but still tent. as no ID hrd. (RW-CA)
- 850 KHLO HI, Hilo 1/15 0450 o/KOA w/rr, ID. Strange cx tonite! (RW-CA)
- 870 KUUY WY, Orchard Valley-Cheyenne 1/23 2142 C&W mx to 2200 ID "KUUY,  
Orchard Valley-Cheyenne" into CBS nx. Very good, completely  
o/KORD most of the time. (NH-WA)
- 880 KKMC CA, Gonzales 1/20 0248-0300 poor to fair w/instrumental  
versions of hymns. ID at 0258 mentioned "Monterey County  
Broadcasting." KRVM apparently off. (TRH-CA)  
+Finally dug out of local KTRB's splatter (during lull in mx)  
on 1/23 1028-1032 w/ment. of "Southwest Radio Church," and  
"...a public service of K-K-M-C." KTRB's resumption of mx  
covered any further listening. Poor. (MH-CA)
- 940 \*KDEO\* HI, Waipahu 1/9 0131 noted testing w/full power by switching  
xmtr on & off. Country mx probably from KPFE hrd intermittently.  
Back on RS 0253, sometimes "chopping" the mx. ID 0257. New  
tower was installed on Jan. 6-7. (DP-HI)
- 1010 KCMJ CA, Palm Springs per yet another call to KCMJ, they've delayed  
work on their xmtr & won't move to 1140 until "late March."  
(RW-CA)
- 1060 \*KPAY\* CA, Chico 1/21 0302 w/TT. (RW-CA)
- 1110 (KHEI) HI, Kihai 1/14 0628 noted off the air. SP's seem to be more  
regular nowadays. (DP-HI)
- 1130 CKWX BC, Vancouver 1/16 0524 usual C&W mx, but mixing w/unID (KSDO?)  
co-channel. Very poor w/deep fades. (DP-HI)
- 1150 (KGNW) WA, Seattle 1/20 0845 noted off, leaving mainly CKIQ. (bp-WA)
- 1170 KVOO OK, Tulsa 1/20 0451 poor w/wx forecast. Local KCEBQ off. (TRH)
- 1180 KERI CA, Wasco-Bakersfield 1/20 0440 fair w/Christian mx, ID's as  
"KERI, the California Sunshine Station," PSA's. Local KCEBQ-  
1170 off. (TRH-CA)
- VOA FL, Marathon Key 1/20 0640 fair to good w/OM SS world nx, ID  
"Las noticias de La Voz de Los Estados Unidos de America."  
Correspondent's report on proposals on El Salvador. Local  
KCEBQ-1170 off. (TRH-CA)
- ?KOPI? MT, Kalispell 1/20 0445 poor, presumed the one here w/Larry  
King Show fading in & out. KCEBQ-1170 off. (TRH-CA)
- 1210 WCAU PA, Philadelphia 1/20 good o/KREW & mess. Couldn't tell if  
KASY was there or not. WCAU w/nx at 2300. Best in quite a  
while. That 1500' sure helps. (PM-OR)

- 1220 CJRB ME, Boissevain 1/22 2120 "Haven of Rest" relig. pgm; 2128 ID "This is the good sound of C-J-R-B 1220..." then into another relig. program. Weak, but o/QRM. (ØW-CO)
- 1230 KIBS CA, Bishop per call to KIBS, they hope to change calls to KBOV by 3/1. (RW-CA)
- 1310 (KFYI) CA, Oakland 1/21 0315 off first time since they changed calls. (RW-CA)
- 1320 ?KGNRR? CA, Sacramento 1/16 0526 Ray Briem talk on photography, Red Cross PSA, then teletalk w/sub. host. No delay compared to KGU (i.e. in synch) so this may be a KGU spur. (DP-HI)
- KKCC OK, Clinton 1/22 1801 YL w/ID, then state/regional nx. Intelligible only briefly in QRM. New, #683. (ØW-CO)
- 1400 KLOCK WA, Goldendale 1/11 1115 good on late skip w/C&W, ID, local PSA. Local ads. G/U KEDC. (bp-WA)
- 1460 KTYM CA, Inglewood noted 1/23 0950-0958 w/EZL mx, ID as "KTYM, Inglewood, at 14-60 on your radio dial," and into "Mission ?? Program" w/Dr. J.D. Carlson. Poor w/co-channel QRM. (EH-CA)
- 1480 KLEO KS, Wichita 1/21 1835 MYL "20-20 Weather," sudden drop in strength 1840, presume power cut. Dominant before then; audible afterwards, but mixing w/several. 1900 ABC nx. (ØW)
- 1490 KSYC CA, Yreka briefly atop the mess 1/23 0941-0944 w/promo for "Jerry Lee live from Gilley's right here on K-S-Y-C." Fair w/co-channel QRM. (MH-CA)
- 1530 KCMN CO, Colorado Springs 1/21 1806 Frankie's "Learning The Blues," other MYL fare. This one is easy, now that KUUY is gone-used to be quite difficult! (ØW-CO)
- 1590 KVGB KS, Great Bend 1/24 2309 good o/all w/rr mx, grocery store ad, PSA, wx, ID's. Haven't hrd this in a long time using now term. 1450\* Beverage, along the ground. (PW-OR)
- 1610 TIS WA, Tacoma 1/20 saw antenna for this TIS at Exit 130 (56th Street) on Interstate 5 in Tacoma. Signs for this are posted for northbound traffic. Lights not flashing, so only open carrier w/some line noise. So Tacoma has two highway info TIS - 530 for southbound, 1610 for northbound. (EH-WA)

DX TPST:

- 1300 ?WQPM? MN, Princeton 1/21 0118, 0123 tent. on DX test w/1 kHz TT noted during these fade-up times, poss. break in tone at 0118. Looped ENE, extremely weak, very deep fades well u/KPTL, KMPS, KYNO, KWKW et al. Last weeks's bulletin said test sked for MM 1/15, but 1/15 is a Tues. morning! Prior bulletin said 1/21 which is a MM, so don't know who was correct! Was last week's bulletin a typo? Test was supposed to carry polka mx, which wouldn't have cut thru the QRM. No TT noted at 0132 recheck, & test was supp. to end at 0130. (RW-CA)

Help with unID's:

- 590 RW's unID of 12/17 (DXM 705) was probably KSUE Cedar City, UT, since So. Utah is known as "Color Country" & So. Utah State College located in Cedar City hosts the annual Color Country basketball tournament. (DP-HI)
- 1190 Re bp's stn w/MYL format on 1190 kHz in 1/19/85 DXB, prob. KJLA, Kansas City. Has been hrd here recently w/KEX off. QSL in 1982. (PW)

UNIDs:

- 700 Noted 1/23 1035-1047 fade w/light instrumental mx, ad for possibly a paging service/beeper. Ment. of what sounded like Gresham, and phone number prefix of "532" I believe. Poor w/QSB. KGRV? (MH-CA)
- 810 1 kHz TT looping E-W 1/21 0104 u/KGO/CHQR. (bp-WA)
- 980 1/21 0313 unID TT weak u/KFWE, looping east. KMBZ? (RW-CA)
- 1230 1/20 0100 SSB u/1230 mess, looping ENE. Ideas/ (RW-CA)
- 1230 1/21 0246 o/mess carrying Master Control program, looping east. Who carries this? (RW-CA)
- 1400 1/21 0630 poss. s/on, ment. "...tune us in at 107.1 on your FM dial," didn't catch the number before the ".1" Looped SE, well u/KRE. Could've been 103.1 but I'm unsure. (RW-CA)
- 1580 1/21 0454 unID way u/KNIX, never fading up strong enough to ID format or stn, either KLOU, KRZI, WSRF or WCLS, all of which I still need!(RW)

Welcome to WDXR, Timothy. It's nice to have a new reporter to welcome to WDXR. ♥

# CENTRAL DX ROUNDUP

Robert Kramer  
6416 N. Richmond  
Chicago, IL 60645

## UNIDED, SPECIAL, CHANCES, et. al.

- 870 KUUY WY ORCHARD VALLEY, 1/10 1900 C&W S-9 o/WWL & KTIS-900 ID ment of doubling coverage on new freq. Unreadable after power/pattern change. GS-MN
- 790 WETB TN JOHNSON CITY, 12/31 0045 up from QRM for clear ID on DX test. GS-MN
- 1030 WMIN MN MAPLEWOOD, now here from 1010 w/500 watts ND days, C&W mx, Mutual. Will be 50000 DA days, 500 ND nights. Correct address 1995 S. Century Ave. Woodbury, MN 55798. GS-MN
- 890 KQLX ND LISBON, 1/18 1733 good in WLS mull w/C&W mx, ID, "Q Country 89" slogan. TN-WI
- 1300 WQFM MN PRINCETON, 1/21 0001 w/special test w/polka mx & TT, voice ID. TMJ-IL
- 1490 KNFL MT LAUREL, ex-KLYC, numerous IDs, SID "Country 15" still being used. JCJ-MT
- All da Rest
- 610 WRUS KY RUSSELLVILLE, 1/5 1757 promo ID, fair-good o/QRM. GS-MN
- 750 WPDX WV CLARKSBURG, 1/5 1700 xint signal way o/WSB. TMJ-IL
- 770 WJMW AL ATHENS, 12/27 1742 fair-good o/WEW w/sports & ID "77 Country WJMW the TN Valley country station. GS-MN
- 1030 WXSS TN MEMPHIS, 1/10 1807 black mx, nx, ID, S9+20. GS-MN, 1/17 1721 fair-good w/AC mx, ID "Contemporary Radio 1030". TN-WI GS-MN
- 1040 WHBO FL PINELLAS PARK, 12/26 0725 rck oldies & "104 WHBO" ID, poor-fair u/o WHO// 1/18 1657 fair o/u WHO w/ID, WX, TN-WI
- WSKE PA EVERETT, 12/25 0738 poor-fair ID u/WHO. GS-MN
- 1090 CHRS FQ JACQUES CARTIER, 1/17 1801 good FF IDs, s/off. TN-WI
- 1210 KASY WA AUBURN, good signal 1/20 w/rck oldies. JCJ-MT (Time ? ed.)
- 1330 KSJN MN MINNEAPOLIS, has AN Classical "Music Through the Night" M-F morn, think off Sa & Su morn. Net is NPR. GS-MN
- 1500 WVSM AL RAINSVILLE, 1/19 1801 fair s/off by woman. TN-WI
- 1600 KRKY CO LAKEWOOD, weak-strong 1/21 along w/Mexican, ID as "Y-108" heavy rck. JCJ-MT

## Dat's All

- TMJ... Tom Jasinski 503 Jensen Shorewood, IL 60436  
(FRG-7 2 1/2\* loop)
- JCJ... John C. Johnson 501 5th St. West Billings, MT 59101  
(Sony VX550)
- TN... Tim Noonan 7454 Thurston Circle Milwaukee, WI 53218  
(SW-4A, Radio West Loop)
- GS... George Sherman Box 2284 Minneapolis, MN 55422  
(R-1000, Radio West Loop)

# Thieves put DJs in street

EVERETT — KBAE-AM radio disc jockeys were broadcasting from a van in front of the station yesterday after their studio was cleaned out by burglars.

About \$150,000 worth of equipment, including typewriters, recording machines, broadcasting and production equipment and teletype machines, was taken sometime early yesterday morning, News Director Dennis Shannon said. Only the transmitter, tower and tapes of music and advertisements were left behind.

Two pick-up trucks would have been needed to remove the equipment, Ken Murray, police spokesman, said.

"It doesn't make sense," Shannon said. "If the equipment would be of no value to anyone to sell. It's not the kind of equipment you'd put in your home."

Last week the station changed its call letters from KRKO to KBAE, following an ownership change in October, Shannon said.

Murray said the station's manager, Marty C. Rowe, discovered the burglary when he arrived there at about 6 a.m.

The station broadcasts 24 hours a day every day except Monday, when it goes off the air between midnight and 6 a.m.

The front door to the station, at 7115 Lowell-Larimer Road, had been bashed in. The knob and dial had been knocked off the safe, but it was not opened, Murray said.

Police have no suspects.

Niles Fowler, the company's main stockholder, appeared before the Everett City Council last week to tell the city that the station is trying to clean up its image, which he said had suffered in the past 10 years under different management.

Fowler said he wanted to squelch rumors that the station was up for sale again, and that he doesn't plan to sell "for many years, if ever."

About \$35,000 of the stolen equipment is new and was intended for the station's new quarters in the Cascade Building at Hewitt and Colby. The station will be moving in about a month.

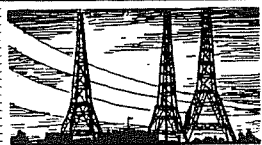
Meanwhile, it will be broadcasting from the mobile unit until it can get new equipment, Shannon said. The station was not able to start broadcasting yesterday until about 8 a.m.

"Quality-wise, it's not up to what we would like, but we're getting on the air," he said.

## Seattle Post-Intelligencer

January 29, 1985





**EASTERN**

**ROUNDUP**

Send your reports to:  
Karl J. Zuk,  
154 Old Post Road North  
Croton-on-Hudson, NY 10520

Don't stay away.....

DO IT TODAY!!!!!!

(new logo by Gardner  
"Smitty" Smith...)

\*\*\*\*\*

REPORTERS IN THIS ISSUE:

- (JHB-FL) Jody B. Hughes, 13720 Gulf Boulevard, #401, Madeira Beach, FL 33708  
R-1000 and Radio West Loop
- (KVJ-GA) Karl V. Jeter, 2115 Scarbrough Road, Stone Mountain, GA 30088  
HQ-150, 2000 foot NW Beverage, 1500 foot W Beverage, phasing unit
- (RCR-PA) Robert C. Ritchey, R.D.#1 Box 738, East Freedom, PA 16637  
Realistic DX-160 and 200 foot long wire
- (GS-DC) Gardner Smith, W9ALZ, 1000 Perry Street, Washington, DC 20017  
Toshiba F-11, HQ-145X
- (WPT-DC) William P. "Bill" Townshend, 4500 Connecticut Avenue NW, #301  
Washington, DC 20008 Realistic DX-160 and Portavision 12-660

and special guest appearance by.....

(MH-NJ) Mike Harla, 1337 Norris Drive, Vineland NJ 08360

\*\*\*\*\*

- 540 CJSB ON, Ottawa. 1-16 0005 Sign off Wednesday morning with this:  
"We must leave the air at this time for technical adjustments."  
First time I've ever heard them silent. My horoscope today said  
"CJSB will sign off tonight." Sure enough. (GS-DC)
- 540 CBEF ON, Windsor. 1-16 0005 After CJSB sign off with FF talk by man and  
woman. CBC net. Mixing with YVOV. (GS-DC)
- 540 WGTO FL, Cypress Gardens. 1-16 0115 Weak with C&W music in between YVOV and  
CBEF, Windsor, ON fades. CJSB, Ottawa, ON, silent. (GS-DC)
- 540 WARO PA, Canonsburg. 1-20 0601 Tuned into this one while it was signing  
on. Weak signal, giving full power info, plus studio, offices and  
transmitter location. (KVJ-GA) (DA-D-250, nice-kz)
- 640 WHLO OH, Akron. 1-19 2345 Kicking the Cuban around tonight, which is  
very unusual. Easy copy. 200 hz heterodyne. (GS-DC)
- 740 KRMG OK, Tulsa. 1-20 0005 Over riding CBL, Toronto, ON, most unusual.  
ABC Info. net news, local weather, then NBC Talknet. (GS-DC)
- 790 WNWS FL, South Miami. 1-12 2245 Strong mixing with Barbados. No sign  
of former pest WTAR, Norfolk, VA. Telephone talk format. (GS-DC)
- 790 WETB TN, Johnson City. 12-31 0055 Two-toned test tone and announcement  
"Testing according to section 73.72 of FCC regulations. Fair  
to Good. (WPT-DC)
- 820 WAIT IL, Chicago. 1-16 2030 Booming in with a S-9 signal with Northwestern  
University basketball. Seldom heard here because of the Cuban. (GS-DC)
- 910 WKEQ KY, Burnside. 1-21 0627 with ads, school closings, "Q-91" slogan and  
C&W music. (KVJ-GA)
- 920 WGST GA, Atlanta. 1-20 0105 Joe Sanders, Exec. V.P. of Georgia's Assn.  
of Broadcasters with congratulations to WGST for being "Triple A  
Radio Station of the Year" award winner. ID as "Newstalk 92",  
then into Larry King. Seldom heard here. (GS-DC)
- 920 WKVA PA, Lewistown. 1-18 2020 ID as "KVA". Another one of those 500  
waters doing so much better since deregulation. Dominating  
channel here. (GS-DC)
- 1030 WXSS TN, Memphis. 1-15 1810 Talk by man, could've been stock reports.  
Fair to poor in null of WBZ, Boston, MA. (WPT-DC)
- 1050 CFYN ON, Sault Saint Marie. 1-16 1710 Sports, weather, ID "CFYN",  
with rock music. Very good. (RCR-PA)
- 1070 WFLI TN, Lookout Mountain. 1-21 0050 Monday morning. Christian bluegrass  
music, strong and alone under mystery open carrier (probably WIBC  
Indianapolis, IN.) in null of Cuban. No CBA, Moncton, NB. (GS-DC)
- 1080 WOAP MI, Owasco. 1-16 1645-1700 Editorial and invitation to respond  
including ID, state news by YL, ad for bank, weather, mostly on  
top and later lost to WTIC, Hartford, CT at 1700. (RCR-PA)
- 1110 WBT NC, Charlotte. 1-21 0049 Announcing silent period starting at 0100  
for transmitter maintenance, and said they would return to the  
air by 0530. (KVJ-GA)
- 1110 CBD NE, St. John. 1-22 0010 Sign off with national anthem leaving  
+1-22 0001 Noted silent. Open carrier back on at 0130 (GS-DC)
- 1110 WMBI IL, Chicago. 1-16 1745 Sign off by man, no SSB, very good. (RCR-PA)
- 1130 UNID 1-21 0100 Unid open carrier smothering WNEW, New York, NY, pinning  
S-meter. Something new. Nothing listed seems possible. (GS-DC)  
(How about WCXI, Detroit, MI with their directional 50 kw? -kz)
- 1150 WCRK TN, Morristown. 1-12 0621 In weakly but over local WTMP, Tampa  
FL, which is on reduced power mornings until sunrise. ID into  
Mutual news at 0630. (JHB-FL)

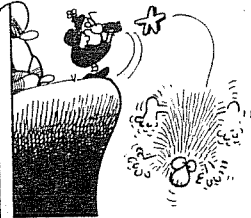
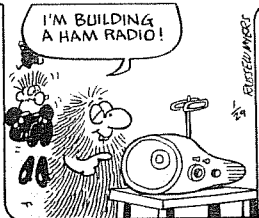
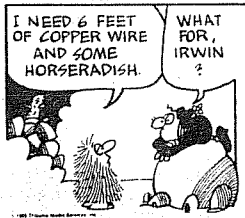
A roundup that Roy Rogers never even heard of...continues.....

- 1150 WXKO GA, Fort Valley. 1-8 0620 in with ID and many mentions of Fort Valley. (JBH-FL)
- 1160 WTYN NC, Tryon. 1-6 0656 Noted their ID out of pop music. (JBH-FL)
- 1220 WMDC MS, Hazelhurst. 1-21 0825 Ad for first national bank. (KVJ-GA)
- 1230 WCOL OH, Columbus. 1-20 0210 Promo for "Feedback" program. "Capital City" weather. Two local spots, then heavy rock music. Frequent mentions of "The New 1230" and "The New WCOL." Tremendous signal riding up over the junkyard. The local channels certainly have a "new sound"(like an avalanche going down a mountain.) (GS-DC)
- t1300 WQFM MN, Princeton. 1-21 0112 with 100 hz test tone. Fair to poor under WFBR, Baltimore, MD. (WPT-DC)
- t+1-21 0100 Tentative on the scheduled test. Heard tones start at 0100 and end at 0130, no music or IDs through the interference. Tones ran several minutes at a time; each time tone was divided into 10 second "bursts" with a small pause in between. (KVJ-GA)
- 1310 WEEL VA, Fairfax. 1-15 0001 Heard sign off announcement. Surprising since WEEL was formerly an all-nighter. Owned by George Mason University. I didn't know that! Runs 5kW/500w. "Bootiful" music format, ex-C&W music, and ex-all-news. (GS-DC)
- 1420 WLET GA, Toccoa. 1-20 1745 Sign off by male chief engineer. Fair. (WPT-DC)
- 1430 WIRE IN, Indianapolis. 1-13 0045 PSA for Indianapolis Public Library. Excellent 480 mile skip, consistently good in null of WNJR, Newark, NJ pest. (GS-DC)(I can hardly get WNJR at night at 30 miles away-kz)
- 1460 WBCU SC, Union. 12-15 1748 ID out of C&W Christmas music. (JBH-FL)
- 1520 WSVL IN, Shelbyville. 12-25 0631 A nice present! ID and ad for Pittsburgh Paint. No interference. (JBH-FL)
- 1520 WKBW NY, Buffalo. 12-25 0659 Noted ID and mention of "KB Stereo 15." (JBH-FL)
- 1540 WMDO MD, Ciudad Wheaton. 1-12 1715 with sign off in English and Spanish. Announced power as 5kW. (Listed as 1kW)Slogan "Radio Mundo" Left open carrier on. (GS-DC)(I have 1kW, too-kz)
- 1540 KXEL IA, Waterloo. 1-20 1940 Incredible signal, like a local, no sign of WPTR, Albany, NY. (GS-DC)
- 1540 WPJM TN, Adamsville. 1-1 0711 Noted with C&W and religious music. Ex-WLIC. Conditions were a little unsettled on this frequency this day. (JBH-FL)
- 1540 WKIE VA, Richmond. 1-1 0713 ID with soul music and local weather at 0719. (JBH-FL)
- 1550 WVVN GA, Vienna. 12-28 0625 Noted with Three-W-N ID. (JBH-FL)
- 1550 WRHC FL, Coral Gables. 1-20 1930 Burying CBE, Windsor, ON with Spanish language talk show about foster homes. ID with Spanish call: (Doblevé Eray Hachay Say)(GS-DC)
- 1560 KQYX MO, Joplin. 12-26 1755 Noted ID and news, then faded away. (JBH-FL)
- 1580 UNID Attention C.M. Stanbury! Mike Harla suggests that your unid in DXM of 11-24-84 on this frequency might be WTYO, Hammonton, NJ. He says there are at least two Hamilton Townships in NJ and WTYO is located near one of them. (MH-NJ)
- 1600 UNID 1-16 1800 Sign off by man, no SSB, sounded like WUNI. Only call sign similar to this is WUNR, Brookline, MA, which is never silent according to my log. Who could this be? (RCR-PA)(I guess what you guess...Brookline, MA-kz)

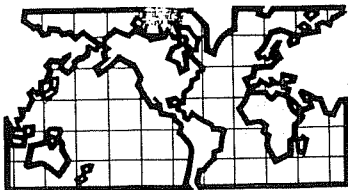
Thanks to Jody, Karl, Robert, Smitty (great logo), and Bill. How do you like Smitty's computer-generated logo? Let me know! Also thanks to Mike for info on CM Stanbury's unid. Time station WGU-20 on 179 kHz has disappeared as many predicted. Both Bill Harms and Gardner Smith got KOA and KOB during the past few weeks. I turned the same trick with a six transistor radio in my hotel room in Palo Alto, CA. By the way, The Dolphins win...they had much prettier cheerleaders than the 49ers! Don't stop till you get enough!-kz

\*\*\*\*\*

BROOM-HILDA



Russell Myers



## DX WORLDWIDE - WEST

Pat Martin - Editor

P.O. Box 843, Seaside, Oregon 97138

PHONE: (503) 861-3185

DX this week continues to be very slow. Not too much to report. We did get a report from a newcomer, Timothy Hall from Chula Vista, California. Report often and welcome! I finally got QSL's from DPR Korea after 20 years of trying. More under veries. Now to reports:

### PAN-AMERICAN DX ROUNDUP

- 580 MEXICO, Chihuahua-XEFI at 1045 on 1/20 OM in SS w/lively vocals, IDs as "Radio Mexicana" Poor to fair. 250 watts night? (TRH-Ca)
- 620 MEXICO, Chihuahua-XEBU at 1206 on 1/20 OM in SS w/Pgm of Songs, many mentions of Chihuahua. Poor w/QRM from KTAR (TRH-Ca)
- 710 t PUERTO RICO, Mayaguez-WKJB, probably the one alone on frequency with 1450 foot Beverage running along ground East (no KIRO, was off, and no KMPC off East Bev), in SS with what sounded like a News Block on some kind, many spots, including one for Eastern Airlines, and many mentions of "en Puerto Rico" in spots, racing of some kind at 1027 on 1/28. Don't know of anything else it could be. Tent. report (taped) sent. My second PR Station here. Listed s/on in WRTH as 0915. Station faded out by 1100 or so, which I presume is close to SR in Puerto Rico. (PM-Or)
- 800 MEXICO, Ciudad Juarez-XEROK at 0700 on 1/20 SS good, w/2 OMs with Rel. pgm,talk,mx ID's every 15 minutes (TRH-Ca)
- NETHERLAND ANTILLES, Bonaire-TWR (presumed) at 0715 on 1/20, EE poor under XEROK w/Rel. pgm "Unshackled" into PP at 0730,barely audible //9560 SW (TRH-Ca)

### TRANS-PACIFIC DX ROUNDUP

- 531 AUSTRALIA, West Kempsey-2MC, fair o/4XA w/Pop mx and 2MC ID at 0915 on 1/25, much poorer than usual. (PM-Or)
- 558 FIJI, Suva-Radio Fiji 1 w/U.S. rr mx and OM anc in Fijian and 0745 on 1/25 in passing. (PM-Or)
- 621 TUVALU, presumed the source of the weak Island mx, mostly buried in the het and KIPA/KGW slop at 0710 on 1/25. (PM-Or)

### VERIFICATIONS:

- 657 NORTH KOREA (DPR), Pyongyang-sent typed QSL card on back on Post card in 3 months after sending reports from Seaside and Vancouver Canada. Sent Seemail along w/book on Korean Health and a nice Pennant. Gave date and time, no mention of location. This has been one of my most wanted QSLs after 20 years of trying. Mentioned that the taped report is quite useful to them. No v/s. Country 67 QSL'd. (PM-Or)
- 875 NORTH KOREA (DPR), Pyongyang-sent typed QSL card on back of Postcard in 3 months as above 657 QSL, Again date and time, no mention of location, which Home Service in Korean. I presume this is the 877 KHZ freq. (PM-Or)
- 1620 AUSTRALIA, Brisbane-4RPH, sent Brisbane City Postcard QSL in 6 months after Chris Martin followed up my report. 500 watts! (PM-Or)

### THANKS TO THESE REPORTERS:

- TRH-Ca Timothy R. Hall-350 G. Street F-1,Chula Vista, California 92010  
DX 150B, Longwire antenna
- PM-Or Yer Editor  
SP-600JX, (2) 1500 foot East Beverages, 200 foot Term. NE LW,Grounds.

### HELP WITH UNIDS

Information from Charlie Taylor-Oak Harbor, Washington informs me that the Government and BCC stations do use Time Pips on the hour. My mistake, thanks for the info on this.

# DX WORLDWIDE EAST

## FAN-AMERICAN DX

- 640 CUBA, Guanabacoa-CMPP-0334 1/20; P. Progreso, did'nt hear ID but was // 660 so must be Cuba. (Wyllie-MA)
- 670 CUBA, Arroyo Arenas-CMPC-0337 1/20; Fast Latin music, 'Radio Rebelde' IDs. Good, over WMAQ. (Wyllie-MA)
- 720 UNID-2305 1/20; Unknown SS str w/poor sig. Many IDs, but too weak to hear clearly. SS and FF songs, such as "I Just Called to Say I Love You". ID 9000 'Radio....' and w/a short trumpet tune at 2303. Anybody know who this is? (Wyllie-MA) (Jamaica gets out well...JH)
- 750 VENEZUELA, Caracas-YVKS-0603 1/4; SS and FF rock music. ID 'Radio Caracas', very good signal. (Wyllie-MA)
- 825 ST. KITTS, Basseterre-0343 1/20; Radio Paradise, strong with religious programs. (Wyllie-MA)
- 830 t COLOMBIA, Medellin-4JDM-1937 1/10; Mixing w/another Sser, male and w/many ments Colombia in heavy accent. No IDs hrd. (Hall)
- 930 CUBA, Matanzas-CMDD-0536 1/4; Fair, weak, w/'RF' code. (Wyllie)
- 940 CUBA, Holguin-CMDD-0533 1/4; Fair, weak, w/'RF' code. (Wyllie)
- 1050 UNID-0630 1/21; Unk SS str w/Latin mx. Good signal but no ID hrd. Behind CHM? Cuba? (Wyllie-MA)
- 1550 DOMINICAN REPUBLIC, Tamayo-HITS-0650-0720 1/11; SS mx and IDs at 0703/0720 as 'Radio Eriquillo'. Very good signal, no sign of CRC station (maybe off by now). (Wyllie-MA) (Yes-CRE-1550 should have been off then. They usually s/off at 0609.JH)
- 1570 MEXICO, Cd. Acuna-XERF-0715 1/4; Good to fair w/what sounded like a rls program, battling CKIM. (Wyllie-MA)
- +1950 1/2R; Screaming in w/faith. (Hall-PA)
- 1580 ANTIGUA-VCA-0109-0125 1/23; V. strong at times, 'The Voice of America in FE w/US & World news. Many ments VOA after each news hit. First time logged on this freq. (Wyllie-MA)
- 1610 AMGUILLA, The Valley-0445 1/4; Good signal w/FF prm "The Voice of the...". S/off at 0500. (Wyllie-MA)

## REPORTERS FOR THIS ISSUE

(Wyllie-MA) William Wyllie, 95 Feck Street, Franklin, MA 02038  
 (Hall-PA) Jim Hall, 240 Byron Rd. Pittsburgh, PA 15237  
 (Drake H-7A, loops, Borwires, etc. etc. etc.)



**VOICE OF  
BARBADOS  
790 KHZ**



**CBC RADIO  
900 kHz**

**Highlights**

5:05 Traffic Beaters; 5:30 VOB Evening Edition - News Major; 5:50 Strictly Business 6:30 VOB News; 6:35 Skywatch - Weather; 6:45 On The Ball - Sports

8:00 Priority - Radio Active Gospel Hour with Adrian and Mike

9:30 VOB News

10:30 Pan Barbados Community News

11:30 VOB Late Edition - News

1:00 Epilogue and Close

**United Barbados newspaper via Ernest Cooper**

AM  
 5:00 VOB 'Hits The Airwaves'; 5:15 Work That Body - Exercise with Maureen Branson; 5:30 First Edition - News; 5:35 Good News - People's Cathedral; 5:45 Death Announcements; 5:55 Just A Moment - Garfield King

6:05 Civic File (BGIS); 6:20 News of The Nation'; 6:30 VOB News; 6:35 Skywatch Weather; 6:45 On The Ball - Sports

7:30 VOB News; 7:35 Skywatch - Weather; 7:38 Traffic Beaters

8:30 VOB News; 8:45 Opportunity Calls - Job Vacancies (BGIS)

9:30 Pan Barbados Community News

PM  
 12:30 Working Man's Report - News and Skywatch; 12:45 On The Ball - Sports

1:30 Pan Barbados Community News

2:30 VOB News

3:30 VOB News

4:20 Civic File (BGIS); 4:30 VOB News; 4:35 Traffic Beaters

AM  
 1:00 One On One  
 1:30 Think-A-While; 5:35 GIS Feature; 5:40 One On One; 5:45 Morning Devotion - The Anglican Church

6:00 News Brief; 6:03 Obituaries; 6:15 Morning Show; 6:30 Weather Outlook; 6:39 Morning Show; 6:39 Crack the Sound Barrier; 6:45 News Break; 6:55 Sports Bulletin

7:00 BBC News; 7:10 Weather Outlook; 7:12 Morning Show; 7:30 Sam On Sports; 7:35 Morning Show; Traffic Report

8:00 News Brief and Weather Outlook; 8:05 Opportunity Calls; 8:10 Morning Show

9:00 Canadian News; 9:10 Obituaries; 9:15 Meeting Point; 9:30 Let's Talk; 9:35 Meeting Point

10:00 Police Concern; 10:05 Meeting Point; 10:25 Body Talk; 10:30 Meeting Point; 10:45 Sports Diary; 10:48 Meeting Point; 10:54 Second Thoughts; 10:55 Meeting Point

11:00 News Brief; 11:05 Meeting Point; 11:30 Blood Bank; 11:32 Meeting Point

Non Guitapark PM  
 1:00 World At One; 1:15 The CBC Sports; 1:30 Voices Xmas; 1:45 Sports Roundup

2:00 MD On Call  
 4:30 The Spirit of Xmas; 4:33 MD On Call

5:00 News Brief; 5:05 MD On Call; 5:15 Caribbean Today - Scotia Bank; 5:30 MD On Call; 5:55 GIS Feature

6:00 News Watch; 6:20 Analysis (Repeat); 6:50 Sports

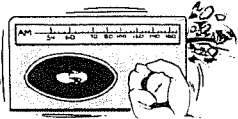
7:00 BBC News; 7:14 Opportunity Calls (Repeat); 7:20 Familiar Music; 7:40 United Nations Radio Program; 7:55 Parliamentary Report

8:00 Roman Catholic Bishop Report; 8:15 Main Line; 8:30 Faith and Life - Wesleyan Holness Church

9:00 On The Night Beat  
 11:10 News Brief; 11:15 Let's Talk (Repeat); 11:20 On The Night Beat; 11:57 Think-A-While

12:00 On the Night Beat; 12:59 Second Thoughts

# TOP END



A monthly column of loggings, discussions & information for the 1600 - 1800 kHz range.  
Deadline: The last Saturday of the month  
All times are GMT

Craig Healy ..... 66 Cove St ..... Pawtucket, RI ..... 02861.....

•February 1985...A better turnout this time. Loggings:

1607 ??? 0130 10/11 Cubic Argo (Chituck)  
1610 WASHINGTON Cle Elum 0727,0749 1/7 WFX989 Nice ID giving callsign during repeated message by YL. Road conditions for Snoqualmie Pass and Blewitt Pass. Atop mess inc. poss. Chief Joseph Dam. (Hardy)  
1610 WASHINGTON Chief Joseph Dam 0313 1/9 Atop briefly w/ info about the Dam. 4th positive logging of a TIS from Aberdeen, plus a tentative. (Hardy)  
1610 ANGUILLA 0140 1/2 Caribbean Beacon good w/ EE ads. (Harbison)  
1610 " 0134 10/11 Caribbean Beacon (Chituck)  
1613 GUATEMALA Rabinal 0100 1/2 RAB (Harbison)  
1614 ??? 0352 11/27 Long tone, 30/minute (Chituck-ICELAND)  
1617 ??? 0136 10/11 Cubic Argo (Chituck)  
1619 ??? 0138 10/11 Cubic Argo (Chituck)  
1620 ??? 0722 1/1 KA83316 weak. ID every 4 min. (Geary)  
1621 ??? 0330 12/2 UBT good (Saloka)  
1621 ??? 0740 1/1 UBT (definitely UBT) fair (Geary)  
1621 ??? 2314 11/24 Cubic Argo (Chituck-ICELAND)  
1622 ??? 0324 12/8 KA83774 very good (Saloka)  
1622 ??? 0545 11/9 KA83774 fair every 4 min. Also strong 0255 11/30 (Geary)  
1622 ??? 0538 11/9 KA83776 strong every 4 mins. (Geary)  
1622 NEW YORK Yonkers 0250-0518 11/30 KPF-941 Strong w/ music and IDs. First heard 0448-0518 10/23 (Geary)  
1625 ECUADOR Pastaza 0351 12/2 PAT poor (Saloka)  
1625 ??? 0343 12/2 KA82777 good (Saloka)  
1627 ??? 0207 12/23 carrier w/ AM modulation (Chituck)  
1628 ??? 0110 11/2 Cubic Argo (Chituck)  
1629 ??? 0146 12/26 H313 (Harbison)  
1630 ??? 0354 11/27 carrier w/ AM modulation (Chituck-ICELAND)  
1632 ??? 0010 1/20 W182 fair (Geary)  
1632 ??? 0306 12/8 KA83326 very good (Saloka)  
1632 ??? 0142 11/2 Cubic Argo (Chituck)  
1632 ??? 0508 9/18 KA83324 fair every 4 mins. (Geary)  
1632 ??? 0510 9/18 111 and dash (one one one) fair every 4 mins. (Geary)  
1632 ??? 0520 9/18 DW03 and dash strong every 4 mins. (Geary)  
1634 ??? 0143 10/11 Cubic Argo (Chituck)  
1634 ??? 0323 12/27 B44 (Harbison)  
1634 ??? 0231 1/4 B444 (Harbison)  
1634 ??? 0233 1/4 T185 (Harbison)  
1634 ??? 0046 11/25 I313 good (Saloka)  
1634 ??? 0047 11/25 A314 good (Saloka)  
1634 ??? 0045 11/25 J314 good (Saloka)  
1635 ??? 0416 12/17 L447 (Harbison)  
1635 ??? 0426 12/17 F59 (Harbison)  
1635 ??? 0427 12/17 A314 (Harbison)  
1635 ??? 0456 12/17 Y190 (Harbison)  
1635 ??? 0327 12/27 I313 (Harbison)  
1635 ??? 2226 12/27 Y14 (Harbison)  
1635 ??? 0141 12/30 KA84049 (Harbison)  
1635 ??? 2255 1/9 I58 (Harbison)  
1636 ??? 0402 12/2 I284 fair w/dash (Saloka)  
1636 ??? 0356 12/2 R119 fair w/dash (Saloka)  
1636 ??? 0357 12/2 O221 good (not zero 221) (Saloka)  
1636 ??? 0356 12/2 L313 good (Saloka)  
1636 ??? 0354 12/2 KA80051 good (Saloka)  
1636 ??? 0143 1/1 L446 (Harbison)  
1636 ??? 2254 1/9 R353 (Harbison)  
1637 ??? 0125 1/3 J314 (Harbison)  
1637 ??? 0126 1/3 S340 (Harbison)  
1637 ??? 0040 11/25 S340 good (Saloka)  
1637 ??? 0127 1/3 O447 (not zero 447) (Harbison)  
1637 ??? 0129 1/3 I448 (Harbison)  
1637 ??? 0130 1/3 U446 (Harbison)  
1637 ??? 0131 1/3 E284 (Harbison)  
1637 ??? 0137 1/3 I55 (Harbison)  
1638 ??? 0005-0010 1/20 O381 (not zero 381) fair (Geary)  
1638 ??? 0005-0010 1/20 F59 fair (Geary)  
1638 ??? 0005-0010 1/20 H181 fair (Geary)  
1638 ??? 0005-0010 1/20 I55 fair (Geary)

1639 ??? 0333 12/8 KA83334 very good (Saloka)  
1639 ??? 0148 11/2 Cubic Argo (Chituck)  
1639 ??? 0209 12/23 carrier w/ AM modulation (Chituck)  
1642 ??? 0139 1/3 N322 (Harbison)  
1642 ??? 0140 1/3 O448 (not zero 448) (Harbison)  
1642 ??? 0141 1/3 Y444 (Harbison)  
1642 ??? 0142 1/3 H374 (Harbison)  
1642 ??? 0143 1/3 O384 (not zero 384) (Harbison)  
1642 ??? 0144 1/3 Q450 (Harbison)  
1642 ??? 0145 1/3 V448 (Harbison)  
1642 ??? 0153 1/3 KA83797 (Harbison)  
1642 ??? 0200 1/3 Z283 (Harbison)  
1642 ??? 2300-2325 1/19 O442 (not zero 442) fair (Geary)  
1642 ??? 2300-2325 1/19 R448 fair (Geary)  
1642 ??? 2300-2325 1/19 Z190 fair (Geary)  
1642 ??? 2300-2325 1/19 C321 fair (Geary)  
1642 ??? 2300-2325 1/19 R280 strong (Geary)  
1642 ??? 2300-2325 1/19 O445 (not zero 445) fair (Geary)  
1642 ??? 2300-2325 1/19 B432 fair (Geary)  
1642 ??? 2300-2325 1/19 B431 strong (Geary)  
1642 ??? 2300-2325 1/19 L335 fair (Geary)  
1642 ??? 2300-2325 1/19 Q17 Fair (Geary)  
1642 ??? 2300-2325 1/19 Q450 strong (Geary)  
1642 ??? 2300-2325 1/19 L350 fair (Geary)  
1642 ??? 0404 12/2 DT98 good w/dash (Saloka)  
1643 NORWAY Gandall 0210 11/23 LGB TLX (Chituck-ICELAND)  
1645 ??? 0144 10/11 Cubic Argo (Chituck)  
1645 ??? 2317 11/24 Decca HiFix (Chituck-ICELAND)  
1646 ??? 0210 12/23 Cubic Argo (Chituck)  
1648 ??? 0113 1/3 B381 (Harbison)  
1648 ??? 0114 1/3 C44 (Harbison)  
1648 ??? 0413 12/2 FRB good (Saloka)  
1648 ??? 0218 11/2 Decca HiFix (Chituck)  
1648 ??? 0211 12/23 Cubic Argo (Chituck)  
1650 ??? 0010-0020 1/20 B381 fair (Geary)  
1650 ??? 0010-0020 1/20 E448 fair (Geary)  
1650 ??? 0010-0020 1/20 P284 fair (Geary)  
1650 ??? 0010-0020 1/20 J105 fair (Geary)  
1650 ??? 0207 1/3 D448 (Harbison)  
1650 ??? 0207 1/3 E448 (Harbison)  
1650 ??? 0209 1/3 X448 (Harbison)  
1651 ??? 0420 12/2 KA80045 fair w/ QRM from carrier (Saloka)  
1651 ??? 0145 10/11 Cubic Argo (Chituck)  
1656 ??? 0205 1/3 KA84070 (Harbison)  
1661 ??? 1037 10/11 Carrier burst, 10 sec. on/20 sec. off (Chituck)  
1672 ??? 0231 11/2 Cubic Argo (Chituck)  
1673 ??? 0209 11/23 Decca HiFix (Chituck-ICELAND)  
1674 ??? 0146 10/11 Cubic Argo (Chituck)  
1683 ??? 0233 11/2 Cubic Argo (Chituck)  
1685 COLOMBIA Mercaderes 0042 12/17 MER (Harbison)  
1685 " " 0353 11/25 MER very good (Saloka)  
1685 " " 0714 12/3 MER good (Harvester)  
1690 ??? 0402 11/27 unid RTTY (Chituck-ICELAND)  
1707 ??? 0236 11/2 "T" beacon, 1/sec (Chituck)  
1709 SCOTLAND Rosyth Fife 0406 11/27 MTO (DE MRK CW) (Chituck-ICELAND)  
1709 ??? 0149 10/11 "A" beacon (Chituck)  
1712 ??? 0245 11/2 TFI (Chituck)  
1714 ??? 0150 10/11 TTI (Chituck)  
1715 ICELAND ?? 0909 11/23 2-way comm, Iceland police. (Chituck-ICELAND)  
1715t COLOMBIA Puerto Asis 0716 12/3 NIS miskeying of SIS? good (Harvester)  
1726 ??? 0206 11/23 Decca HiFix (Chituck-ICELAND)  
1730 ??? 0248 11/2 carrier w/ AM modulation (Chituck)  
1735 ??? 0205 11/23 carrier w/AM modulation (Chituck-ICELAND)  
1737 ??? 0249 11/2 carrier w/ AM modulation (Chituck)  
1739 ??? 0203 11/23 SSI (Chituck-ICELAND)  
1744 ??? 0151 10/11 "A" beacon (Chituck)  
1744 ??? 0250 11/2 "H" beacon (Chituck)  
1745 ??? 0201 11/23 IT (Chituck-ICELAND)  
1746 ??? 0152 10/11 1 tone every 2 seconds (Chituck)  
1747 ??? 0252 11/2 1 pip per second (Chituck)  
1747 ??? 0159 11/23 unid CW communication (Chituck-ICELAND)  
1748 ??? 0410 11/27 EET (Chituck-ICELAND)  
1749 ??? 0153 10/11 Cubic Argo (Chituck)  
1749 ??? 0153 10/11 "W" beacon (Chituck)  
1749 ??? 0411 11/27 Voice comm., Norwegian (Chituck-ICELAND)

1751 ??? 0154 10/11 Cubic Argo (Chituck)  
 1751 ??? 0157 11/23 ST (Chituck-ICELAND)  
 1752 ??? 0254 11/2 Cubic Argo (Chituck)  
 1753 ??? 0155 10/11 Cubic Argo (Chituck)  
 1756 ??? 0155 11/23 TS (Chituck-ICELAND)  
 1758 ??? 0053 1/8 Navigational station, phone QRM (Harbison)  
 1758 ??? 0255 11/2 Cubic Argo (Chituck)  
 1760 ??? 0156 10/11 Cubic Argo (Chituck)  
 1764 ??? 0256 11/2 HT (Chituck)  
 1765 ??? 0157 10/11 HT (Chituck)  
 1766 ??? 0154 11/23 Decca HiFix (Chituck-ICELAND)  
 1769 ??? 0159 10/11 Cubic Argo (Chituck)  
 1769 ??? 0152 11/23 unid RTTY (Chituck-ICELAND)  
 1783 ??? 0010 1/8 Dot Dash beacon, no particular order. (Harbison)  
 1783 ??? 0359 11/25 "beeps" very good (Saloka)  
 1796 ??? 0147 11/23 TT (Chituck-ICELAND)

**Credits:**

Mike Hardester	Littleton, CO	R-1000, R. West active antenna
Kermit Geary	Walnutport, PA	
Bill Hardy	Aberdeen, WA	
Norm Harbison	Monroeville, NJ	DX-302, 130' dipole
Joe Saloka	Chardon, OH	Drake R4C, 160 meter dipole
Bruce Chituck	Pax River, MD	DX-302, 65' wire
Bruce Chituck	Kevlavik, ICELAND	same

A note from Mike Hardester has the address of LGB as:

Rogaland Coastal Radio - LGB  
 P.O. Box 367  
 N-4310 Ganddal  
 NORWAY.

He says that SPEEDX lists a QSL received for one IRC and a prepared form card in 17 days air. This was in August 1984.  
 Mike also has the dubious distinction of having his loggings spend the longest time in the USPS. Postmarked 12/6, received 1/15. 'Til later.....

Hawaii Tribune-Herald, Jan. 24, 1984. Via Richard E. Wood

# Radio radiation high in Honolulu

HONOLULU (UPI) — The Environmental Protection Agency says public exposure to radio frequency radiation at two antenna towers in Honolulu exceeds the voluntary standard generally recommended as safe by the broadcast industry.

The finding, which was to be explained in detail at a news conference today, is the result of a study of 21 tower sites, conducted at the request of the Federal Communications Commission.

The EPA took its highest readings in two parking lots. One is next to a tower at 3555 Harding

Avenue in Kaimuki which is used by four radio stations. The other is near the Ala Wai tower at Eaton Square in Waikiki.

The EPA said it does not believe the levels of "RF" radiation pose an immediate risk to the public, because most exposures are brief. But in a letter yesterday to the FCC, Joseph Cannon, EPA assistant administrator for air and radiation, said it would be "prudent" for the FCC to study how many people spend time in the highest radiation fields, and how often, and for how long.

The FCC would be responsible

for determining if any corrective action were needed.

The EPA believes conditions are somewhat unusual in Honolulu, where a number of broadcast antennas are on downtown rooftops, because of zoning laws which bar them from the surrounding hills.

Radio frequency radiation is the signal from radio, television and other communications systems that transmits program material to the public. Low levels of exposure are not associated with any known harmful effects on health.

The highest RF radiation levels were found outdoors near the towers, and on nearby rooftops, usually at sites inaccessible to anyone but maintenance personnel. Indoor measurements were generally low, because of shielding provided by the structures.

The EPA expects to issue some guidance on public exposure to RF radiation early this year.

RF radiation is part of the electromagnetic radiation spectrum. It is not like X-ray-type ionizing radiation, which creates charged particles in tissue.



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