

# DX NEWS

The Magazine of the National Radio Club



VOLUME 40

JANUARY 17, 1973

NUMBER 11

"Please renew my membership for another year. The Club keeps getting better and the Pattern Book helps immensely in tracking down those elusive signals." (John Basehore)

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## NEW MEMBERS THIS WEEK...

- \*John Weber, Rt. #3, Sheboygan Falls, Wis. 53085
- \*P. C. Bergen, 131 Union Blvd., Kitchener, Ontario N2M 2S3
- \*Brian Pitman, 11 Regent St., Kingston, Ontario K7L 4J6
- \*Henry Kauf, Jr., 486 Brock St., Kingston, Ontario 7KL 1T7
- \*Bill Gannaway, 1711 McGuire Ave., Monroe, La. 71201
- \*Roger Burket, 1213 24th Ave., Altoona, Pa. 16601 (Rejoins)
- \*Howard Montgomery, 6922 Seminole Blvd., Seminole, Fla. 33542
- \*Mark Bauer, 9302 N. Park, Indianapolis, Ind. 46240
- \*Emily Singh, 728 Geer St., Turlock, Ca. 95380
- \*Robert Lindsay, Jr., Riverside Dr., Old Forge, N. Y. 13420

# E

Welcome to our Club, ladies and gentlemen, we hope to be reading of your DX'ing activities often here in DX NEWS. **Why not send a note into Musings and introduce yourselves to the membership?**

## A VERY SPECIAL TEST BROADCAST FOR THE NRC...

Long-time NRC member Dave Gleason, now Program Director for WERC in Birmingham, will conduct two tests for the NRC. **They'll be aired on January 29 and February 5th** and will last two hours from 0300-0500 EST. A selection of adult contemporary vocal music will be presented and several collect calls will be accepted. **A prize of \$20 will be given to the most distant listener during the test!** WERC operates on 960 kHz and will be running 5 kw into a two-tower directional antenna protecting KMA and WFIR. Address reports to Box 10904, Birmingham, Ala., 35202, in care of Dave. According to the Pattern Book this will be a real roughie along the Eastern seaboard but should still get out over a wide area.

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## SCHEDULE FOR DX NEWS...

We now resume weekly publication of DX NEWS and will continue on a weekly schedule until the middle of spring. We are making a slight adjustment in the timing of DX NEWS production, necessitated by the fact that Page Taylor can only work on IDX on Sunday. We will complete composition of DX NEWS when Page's section arrives on Tuesday or Wednesday; copy goes to the printer the same day. This means the other editors have an additional day to get copy to HQ each week. Editors should continue to mail sections to HQ via Special Delivery.

## MECHANICAL FILTERS, FINALLY!

Kokusai has modified the distribution procedure for their excellent miniature mechanical filters (described at length in past articles in DX NEWS) and we will now be able to obtain them directly from a state-side representative without having to go through all of the delay and red-tape we've experienced in the past when we've dealt directly with Japan. **The price is even lower this way, too!** HQ is now purchasing a batch of these excellent 2.1 kHz units (for receivers with 455 kHz 1F frequency only) for resale at cost to the membership. Price is \$15.00 per filter, please specify if for vacuum tube or transistor receiver. The first batch will probably be at HQ by the time you read this; we will fill orders the same day they are received.

## REPORT FORMS AND STATIONERY, TOO.

Reception report forms are now available to NRC members; more details will be found elsewhere this issue. We also now have stationery in stock; two color printing with the NRC emblem. Price is \$2.35 for 100 sheets, postpaid.

## DAYTIME DX INFO REQUESTED...

As we'd hoped, our recent articles on the limits of midday DX have stirred up some interest in this interesting but neglected area. **Professor Ray Bell** of the Physics Department at Penn State has sent along a copy of a technical paper he'd published in 1937 in which he'd measured daytime signal strengths in an attempt to verify the groundwave equations. He naturally observed midday skywaves but apparently none further away than expected on the basis of the mechanisms described in GPN's recent article. He's checking his old records further for useful data. Bengt Ericson in Sweden has checked midday reception there and a report will appear soon. We would like to ask our membership - especially the old-timers who listened in the good old days before the RF pollution really hit - to check their logs for long distance midday receptions. **Remember, by midday we mean the period from 10:00 AM through 2:00 PM local time at the midpoint of the signal path.** Please send whatever data you can find to GPN at HQ and he'll include it in a future article.

## NEW MEMBER KITS...

The last remaining problem from the fire which destroyed much of HQ last year is New Member Kits; the stocks on hand were lost and we've been slow in replacing them due to the pressure of publication workload, production of the Pattern Book and Domestic Log, etc. We're still working on NMK's - the recent abbreviation list appearing here in DXN is part of that effort. Any typing volunteers with carbon ribbon typewriters willing to help us out?

\*GPN, BCK, CDP

# Pattern Book Corrector

The following are all of the corrections and additions to the NRC Night Pattern Book so far reported by both our membership and other DX'ers. In some cases the corrections themselves appear to have been in error; in the event of contradictory information we have used the master copy for the upcoming new NRC Domestic Log as the final reference. **We will continue to welcome further additions or corrections** and Pattern Book updaters will appear on an irregular basis here in DX NEWS.

- |         |  |   |
|---------|--|---|
| 550     | 2. City is Trois-Rivieres. All French Canadian names consisting of more than one word are hyphenated. (RW) |   |
|         | 10. Call is CHNO. (CA)   | 1050/1060                                   |
|         | 15. City is Bismarck. (RW)   | 9. Call is WRMF. (CA)                       |
| 560     | 21. Call is KBLU. (CA, KS)   | 1070  |
|         |  | 16. Is KHMO, Hannibal, DA-2. (KS, RF, RE)   |
| 580     | 23. Call is KCMX. (CA, KS)   | 17. Is WTSO, Madison, DA-2. (KS, RF, RE)    |
| 590     | 2. City is Jonquiere. (RW)   | 1100/1110                                   |
|         | 27. City is San Bernardino. (RW)   | 8. KBND, 10 kw, is now active. (CA, KS)     |
| 610     | 11. City is St. Catharines. (RW)   | 1150  |
|         | 22. Call is KONA. (CA, KS)   | 10. Call is WCRK. (CA)                      |
|         |  | 17. City is Mt. Pleasant. (RW)              |
| 680     | 17. Call is KKYX (RE)  | 1220  |
|         |  | 2. Call is CKSM. (CA)                       |
| 720/730 | 2. Call is KIQX. (CA)  | 1280  |
|         | 3. City is Gander. (CA)  | 21. Call is KTLK. (KS)                      |
|         | 7. Call is CKDM. (CA, KS)  | 29. Call is KFYN. (CA, KS)                  |
| 910     | 8. Call is WJCW. (CA)  | 1290  |
|         |  | 23. Is KUMA, Portland, DA-N. (KS)           |
| 920     | 10. Call is WMEL. (CA)   | 1300  |
|         | 19. City is Faribault. (CA)  | 23. Call is KPTL. (CA, KS)                  |
| 930     | 14. City is Poplar Bluff. (CA, RW)   | 1310  |
|         |  | 22. Call is KEIN, city is Great Falls. (CA) |
| 950     | 2. Call is CKNB. (CA)  | 23. City is Greeley. (RW)                   |
|         |  | 1320  |
| 960     | 23. KLAD does not operate at night; pattern is for CP which station does not plan to activate. (KS)        | 15. City is Lansing. (CA)                   |
|         |  | 1330  |
| 970     | 13. Call is WREO. (CA)   | 12. City is Campbell. (KS)                  |
|         | 26. Call is KCHV. (CA)   | 13. Call is WRIE. (CA)                      |
|         |  | 1350  |
| 980     | 13. Call is KSGM. (CA)   | 2. CFOM CP is defunct. (RW)                 |
|         |  | 1370  |
| 990     | 6. City is Mayaguez. (CA)  | 13. City is Fairmont. (CA)                  |
|         |  | 1380  |
|         |  | 4. Call is WBBX. (CA)                       |
|         |  | 26. City is Brownwood. (CA)                 |
|         |  | 32. Call is KTOM. (CA, KS)                  |

- 1410 16. Call is WIZM. (CA, RE)      1460 12. City is San Sabastian. (RW)
- Add KERN, Bakersfield, Ca.,      24. Call is KMWX. (CA, KS)
- DA-1. (KS)
- 1420 10. CKPT is call. (CA)
- 16. Call is KLUF. (KS)
- 1430 9. Call is WQPD. (CA)
- 19. Call is KRGI. (CA)
- 22. Call is KEGL. (CA, KS)
- 1440/1450 16. Call is WAKC. (CA, RE)
- 26. CJOI is now on. (CA)
- 30. City is Napa. (CA, KS)
- 31. Call is KUHL. (CA, KS)

- 1530 1. WUPR is a dot in P. R. (KS)
- 1570 2. City is Orillia. (RW)
- 1590 17. Call KIKN. (CA)
- 1600 7. City is Riviera. (RW)

CONTRIBUTORS

CONTRIBUTORS. CA - Chuck Albertson; KS - Kevin Slater; RE - Rich Eddie;  
RW - Richard Wood.

				c Power	A.M. E.S.T.
Sun. Jan. 14	W J D X	620	Jackson, Mississippi	1,000 U-2	NNRC 1:30 - 4:00
Mon. Jan. 15	W B T X	1470	Broadway, Virginia	5,000 D-1	NRC See below
Mon. Jan. 29	K T G O	1090	Tioga, North Dakota	250 D-1	NRC 3:00 - 3:30
Thu. Feb. 8	W P C F	1430	Panama City, Florida	5,000 U-4	NNRC 2:00 - 3:00
Mon. Feb. 12	K O T A	1380	Rapid City, South Dak.	5,000 U-2	IRCA 1:01 - 2:00
12	K W H N	1320	Fort Smith, Arkansas	5,000 U-2	NNRC 2:00 -
Tue. Feb. 13	K G H L	790	Billings, Montana	5,000 U-2	NNRC 4:00 - 5:00
Mon, Feb. 19	W K I G	1580	Glennville, Georgia	1,000 D-1	NRC 3:00 - 3:15
Sat. Feb. 24	K L C L	1470	Lake Charles, Louisiana	5,000 U-2	NNRC 3:00 -
Mon. Feb. 26	W D E L	1150	Wilmington, Delaware	5,000 U-2	NRC & 3:30 - 4:58
Mon. Apr. 2	W R A N	1510	Dover, New Jersey	500 U-4	NNRC 2:00 -

W J D X. Tones and frequent IDs. He will use 5,000 & 1,000 watt transmitters. Reports to Floyd Kinard, Chief Engineer, Box 2171, WJDX, Jackson, Miss. 39205. G. Vonderembse.

W B T X. Time asked for was 2:00-3:00 a.m., but the Chief Engineer has to sign the station on that ayem, and suggested instead 12-1 a.m. We then suggested 3:30-4:30 with his resting at the station till their 6 a.m. s/on, so we don't know what hour this TEST will take place! 12-1 finds the channel still very crowded. They'll play Top 40 country-western instrumentals, and some big band music, maybe some polkas, too. Various pitched cycle tones will be used, and hopefully, Morse Code call letter IDs. There will be voice IDs, local weather, phone numbers, and perhaps some calls on the air. Write Mr. Keith Vollnegle, C.E., WBTK, 1470, Box 337, Broadway, Va. 22815. They are 5 kilowatts, and non-directional. WES BOYD.

WWRL was off MM 12/18, but did not notify us, so the TESTs planned were not aired on that date. They are:

WCPC, Chesapeake, Va. 2:30-3:00; KLEB, Golden Meadow, Ia., 3:00-3:30, and WING-Sag Harbor, N.Y., 3:30-4, this last one doubtful now as no word has come from Paul Sidney of WING and the NRC. We asked for either Feb. 12 or Feb. 19 - let's hope.

WGLS-1560, Port Washington, N.Y. had PoP TESTs on both 12/15 and 12/16, with info received here (Brooklyn) on Friday, Dec. 15 from IRCA's Dave Faulkner.

Everything is in received through 12/27/72 except one single-spaced, small-written-in-pencil report. And a Happy New Year to all.

MANAGUA, NICARAGUA

Everyone grieved over this tragedy, but perhaps us foreign DXers did even more so, as this friendly city had many friendly radio stations and people. We hope they all survived this great tragedy and our hearts go out to everyone there.

ERNEST R. COOPER - 438 East 21 Street - Brooklyn, N.Y. 11226 - Carrier Route 56  
A v/g from BBC-1088, but doesn't specify location of the XR or its power, or anything. I count it, 'cuz I know what it's for, hi. MM 12/18- WHN-1050 off & Colombian noted on 1055 @ 3:21, weak, & killed @ 3:47 by WHN's OC return. Stan Moss says it was La Voz de Centro, Espinol. Weak SS on 1110, unID, AN, and one even weaker on 1345 @ 4:18, too much in the mud to get any detail at all, even language, but I'll bet 69% on SS, hi. SS c/u KSL-1160 @ 4:31, too. On the afternoon of 12/24 @ 2:35, I noted FF CHRS-1090 like 18 tons in the clear! MM 12/25- The SS on 615 wasn't YNN, but R. Tricolor, Cali, Colombia, heard @ 12:20-12:33am. On 540, R. Perija, Venezuela, & R. Horizonte, Colombia in/out all AM, both strong. XEVIP-1560 AN in EE w/occasional SS IDs & Christmas mx, IDing in EE as V.I.P. Radio and in SS as Radio Veep. New were R. Cimo-1548, mostly talk of the Mangua tragedy but some mx, AN, & R. Columbia-1325, Liberia, Costa Rica, also AN. Looking for the r/c of new KKIM-1000, unXDCY R. M1 I found, not they, but old "friend" Radio Record, Gap Pauls, Brazil, @ 2:20-2:35, for umpteenth report to this toughy. On were CJBK-860 CBJ-1580 WBZ-1030 KDKA-1020 WHCM-1480 WEXX-1380 WCKY-1530 WRAL-1090 & off as usual on Christmas morn, WWVA-1170, but weak weak signal there, unID.CUN7.

# CFRB's claims exaggeration, engineer says

**Special to The Globe and Mail**  
MISSISSAUGA — A suggestion that development in Mississauga will put radio station CFRB out of business is an exaggeration, town council's general committee was told yesterday.

George Mather, a consulting engineer hired by the town to investigate the claim, said the radio station's concern that proposed high-rise development in the Clarkson area could put them out of business because of interference around its Mississauga transmitting station was "not valid."

A report by Clive Eastwood, a professional engineer commissioned by CFRB says "the construction of tall buildings in CFRB's strong-field area could result in a revocation of the station's licence."

The town's Lakeshore Community Study proposes massive residential development which would increase the population of the Clarkson-Lorne Park area to 10 times the present 6,500. The CFRB brief to council says this would be detrimental to its operations. It asks that buildings proposed near the transmitter be limited to 30 feet in height and that others proposed for Lakeshore Road, about two miles east of the transmitter site, be kept to a height of 35 feet.

"The problem is quite sim-

ple: CFRB Ltd. may, in the not too distant future, be required to reduce or even eliminate entirely the radio signal from its transmitter in the town of Mississauga. In other words, CFRB may be forced out of business," the CFRB brief says.

"The reason for this (to us) ominous statement is the threat to our signal pattern caused by the proposed construction of tall buildings in

the area of our transmitter. The report says there are no other sites in the area where it could suitably locate its transmitters.

The radio station is required by the Department of Communications to restrict its signal radiated in certain directions in order to protect the signals of other stations. The report says that because of international agreements, the directional pattern

used by CFRB at night is very critical.

"The portion of this signal that is re-radiated in the protected directions is the protected signal, since the scattered signal would cause CFRB to violate its commitments under licence."

According to Mather, however, a report on which CFRB reached its conclusion on re-radiation is not valid in this argument.





CARL W. LABELSTEIN - 3300 North 56 Street - Lincoln, Nebraska - 68507

DX has been slow at this site lately - mostly tuning in f/cs. 11/17 brought r/c-TT from WBEK-1260 Blakely, Ga. @ 1. The s/on-SSB from WLLD-1270 Niagara Falls heard @ 7. All-new KLEU-850 Waterloo, Ia. now a daytime regular (even w/KOA), first heard on 11/19. KWAD-920 Wadena logged w/c/v @ 7:15 on 11/20. 11/21 brought r/c-TT from WEAS-900 Savannah @ 2. KPAR-1190 Albuquerque r/c heard @ 3:05 on 11/22. KRSP-1060 (Crisp Radio) s/off heard 11/24 @ 7:17. This completes Salt Lake City for me. WSWG-1530 Greenwood, Miss. heard @ 7:25 on 11/26 w/religious mx. The r/c from WFLN-900 Philly heard 11/25 @ 5:25. KAMA-1060, the relatively newie in El Paso was heard on 11/28 w/SS programming @ 6:50. Then at 7, they s/off in SS & were gone. I thought that U.S. stations that carried other languages still were required to ID in EE. Does that new rule waive this requirement? KKIM-1000 Albuquerque heard s/off-SSB @ 6:57 on 11/29. KVSJ-1450 Show Low, Ariz. heard 12/4 @ 2:35 w/TT. 12/6 brought r/c-TT from KANE-1240 New Iberia La. @ 4:15. Latest veries are: CHLO KNBO WAMI KBRE WVOL WPCF WEIC XERV XEW KDIJ KSXX KPAR YNK XEFB, all v/ls. XEDM KFMB KMPL SEBY WFLN WJW c/qs. CFGO KRED, v/fs. WBEK KCIIJ KWAD, v/rs. Totals now are 1,504 logged & 1,327 verified. I received a letter from C. Marhis, CE of KBEX, & he said they received EIGHT verifiable reports for their TEST. Included were Ontario & California. He was pleased with the reports, but disappointed there weren't more. I noticed in DX NEWS & DX Monitor several others reporting hearing the TEST, but didn't report as they had heard them before. Might I suggest in the future that if you hear a DX TEST from a station you have already verified, at least have the courtesy to drop them a postcard. This would take only a minute & I'm sure the CE, who took time to conduct the TEST sure would! Last Sat. the Lincoln clan chanced our 3200' Beverage to an 1800' one. They had to move cattle into one of the fields we used. This is constructed at the U. of Neb. field laboratory near Mead, Neb. The Beverage is great but is kind of inconvenient having to drive 35 miles to use it. We do plan another AN session there soon. 73.

RICH EDDIE - 152 West Rose - St. Louis, Missouri - 63119

Hi fellow members of NRC. Long time no Muse. Some local notes: KMOX -1120 doesn't seem to have a regular SP, also neither does the new (as of 7/10/72) WESL-1490 East St. Louis, Ill. And bad news, KATZ-;600 is now AN7-NSP. So far I've gotten five DX TESTs out of 35 or so, hi. Biggest news is I logged Country # 19 in the form of ZDK-1100 St. Johns, Antigua - also makes Country #13 verified. The KYMN-1080 TDST made it in on both 1kw & PSA of 4.2w. Another of my better catches, KCHY-1530 Wyo. for another state capital. MM 12/11 KRGO-1550 Salt Lake City heard on ET tune-in 2:40 to 2:50 s/off. KRCB-1560 Council Bluffs brief ET 2:34-2:40, DX-TEST MWMM-1090 tune-in 3:04 to 3:20 tune-out weak, XEPRS QRM. And WANY-1390 Albany, Ky. 4:17-4:30 on r/c. Totals now at 1,062/623 47/46 6/5 19/13. I hope to have more DX next time. The NRC Nighttime Pattern Book is really great! I can't wait until the day pattern book comes out. Welcome to all new members & anyone living in the St. Louis area feel free to correspond. So until next time, Merry Christmas & Happy New Year to all! Good DX & 73s!

STAN MORSS - Route 3 - Broadford, Massachusetts - 01830

12/2- WPUV-1580 Pulaski, Va. in already @ 3:40pm yet while looking for WSUF. WCEC-810 Rocky Mount, N.C. s/off @ 5pm, then needed WQIZ St. Georges, S. C. to 5:08 when WMTS Murphreesboro Tenn. took over. Veries, XEPRS, WARR. 12/4- CHQT-1110 Admonton Alta. 2am, plenty of KFAB QRM & some SS, probably YVRX. WEZE off & a Dolly Holiday tape show on 1260 giving temperature as 1° below in the Capital City, what capital city? (Reykjavik?? -ERC) WQZR off & CJOC s/off @ 3, no sign of CHSC, evidently not AN any more. CHQR-810 in clear @ 3:15. WHDH on 790 as well as 850 @ 3:46 - not earlier, though?? YVOV-540 Maracaibo easy @ 4:12am. Verie, card & pennant from HJAQ, still listing 680 on pennant, also an HJAR pennant. This was an error I guess, as it's been several years since I heard that one - same owner - also owner of Ia Voz de Baranquilla-760, 10kw, per stationery. 12/7 PM-WPNC-1470 Plymouth, N.C. over most, but not needed, looking for WBTX. Looking again for WSPV, I found WLLM on top @ 5:30. WAXC-1460 Rochester u/WOKO & about equal to WBET/WCMB @ 6:25pm for a new one. TAs strong this PM - I worked on EE on 1546 but too weak & too much WPTR.

RON MUSCO - 16 Chestnut Drive - Windsor, Connecticut - 06095

Overtime at work has shifted DXing from SM to MM, 12-3:30am. Thanks-giving AM I noted the new WQTR-1060 at S-5 w/high school FB 10:59-11:30am. 11/24, DXing 1380. Possible WFSR s/on 5:27; WBBX s/on 5:30 but I couldn't hold it. (I doubt WFSR, Ron - they can't s/on till 6 -ERC) TT on 1450 @ 5:34am, and possible WRDQ-1400 @ 5:42 with Bumper Sticker Contest, but not 100% sure 'twaw they. That night WFNC-940 way on top, 4:30-4:45pm. v/1 says now on 50kw days. 11/26- WTEL-860 4:30-4:45 way on top with Polish program, woman announcer. 11/27- Per ERC's tip I heard WGOE-1590 w/ET 12:45-1:06am and again @ 3:05, way over everything with weird mx & cuts. WQDB-1240 finally w/WBAX nowhere in sight 1:21-1:40am w/no spots & rr. Aurora this night? WKAQ-580 on top 2:11-2:32am w/EE ID @ 2:11, then SS IDs and "Mas Musica." 12/4- Beaucoup TT all over the dial with rary an ID. 600 had one 1:25-1:30 and beyond, who? TT noted on 740 970 950 1050, all between 1:30 and 2:30am. CKWS-960 s/off @ 2am. TT here @ 2:34 and an unk w/HI of Georgia spot. WOKY-920 ET, ID @ 2:06. Very tentative f/c from KGHJ-790 2:45-3 w/tester beneath them till past 3:07. 12/11- WORC-1310 w/ET, ID @ 12:20am for Mass. #49. 600 TTer here again 12:51-1:04am w/no IDs. WPTX-920 1:10-1:25 ID with ET. A call to them that night said change of modulator tubes and testing with 5kw. The CE said he tests MMs and will be installing new audio panel and may come on with the 5kw again. Watch this one MM around midnight. WJNA-1420 TEST heard here 1:35-1:50 w/WHK/WBSM. QRM. WJET-1400 unkn @ 2 w/tester beneath. 1460 had TT, then brief DT, then gone @ 2:33. MWMM-1090 TEST L&C 2:56-3:07 when WTIC started up the mx and killed it. V/1- WGBI CHLO WFNC WKAQ, & v/q, WHLO, courtesy Wes Boud. Merry Christmas and a Happy New Year to all.

BRIAN VERNON - Apt. 917 - 75 Thorncliffe Park Drive - Toronto 17, Ontario

Having been in NRC for 14 months without Musing, I'm disgusted with myself - here's a brief intro. I'm 25, an electrician, haven't been DXing for the past 12 months now, but I'm back with my little 15 transistor 14 diode radio & cassette recorder. Last year in Levack, Ont. I managed to get veries from all the U.S. clear channel Class 1A stations. I was very lucky to get veries from KFI & KSL. Total veries, 94; 18C heard, new veries: WFBR-1300 WKST-1280. Veries out to WWRL WOHJ WJAC WJAS WSAI WXYZ WERE & new call, WWWE. I just the Night Pattern Book which is just incredible and indispensable. I would like to thank Wes Boyd for pointing out all the advantages of joining NRC, & everyone who helped organize a TEST from WSAF 2/15/71, which is when I started this wonderful hobby. I look forward to Musing again. The best to all this Christmas. 73s. (Welcome to the Musings Section, Brian - better late than never, and better yet, OPTER! -ERC)

CHRIS LUCAS - 407 Elmwood Avenue - Ithaca, New York - 14850

DX continues, mostly SSS stuff. New loggings in past 12 days include: 12/5- WKDR-1070 N.Y. @ 4:05pm, WNTY-990 Conn. @ 4:16. Several attempts at WIKW-900 have been unsuccessful; back in Fairfield, Conn., WIKW used to be very weak daytime, but often came in like a ton on bricks at SSS. WING-1410 @ 4:30pm, WHYL-960 Pa. @ 4:35, WELI-960 Conn. @ 5. 12/7- WWRN-1550 Mass. @ 4:17pm s/off,

8  
WIAN-1390 Pa. @ 4:36, WEEU-850 Pa. @ 4:45pm. 12/8- WHDH-850 Mass., WRYT-950 Mass. @ 4:12, WEMB-1420 Tenn. @ 4:27, WRBO-970 O. @ 4:49, WRG-980 D.C. @ 5:09pm "Top 40", WFPM-1260 Ind. @ 5:14. 12/9- WAMV-970 Va. @ 3:46pm, Quebec-1060 @ 3:53pm, sounded like call was CJFA instad of CJLR, FF. WKCW-1420 Va. @ 4:33pm, CKCV-1280 Quebec @ 5:08pm, FF. 12/10- CP WCJW-1140 testing w/OC, ID @ 1pm, WVPO-840 @ 3:30-m as I discovered they make it here weakly on daytime ground wave, when my WHCU image on about 832 is nulled. This WHCU-832 image is similar to the WCES-850 image I get in Connecticut. WADI-910 Me. @ 4:32pm, WAVA-780 Va. @ 4:37, NX-Radio, WCKB-780 N.C. @ 4:59 s/off, CHRL-910 Que. @ 5:30pm, FF. 12/11- WMMW-1090 TRST noted quite well @ 3:06am, WHKY-1290 N.C. @ 4:17pm, looking through my logs I noted I had never logged semi-local WKOP-1360, so I logged them @ 4:29pm. WIRE-1430 Ind. @ 6pm. 12/12- WEHM-1330 Va. @ 5pm, WYGO-1330 C 5:17 s/off. 12/13- WERE-1300 O. @ 1:01am, WAST-1330 Md. @ 4:45pm s/off I&C, WFNC-940 N.C. @ 5:12, dropped out completely at pattern change a couple minutes later. 12/15- WKBR-1250 N.H. a bit of a surprise @ 5 pm as this frequency is usually WTAE's stronghold. 12/16- WGOE-1590 Va. @ 4:59pm s/off. Total Ithaca loggings is 597. I tried calibrating my S-meter with the loop antenna being used by calculating the field strengths of various stations with the use of FCC curves. It was hard to get accurate results, but it appears the S-meter on my Lafayette HE-30 registers a 3db change in signal for each actual 1 db. S-9 corresponds to about 40 uv/m, with the meter pinned (plus 54 db) at a little less than 400 uv/m. At the low end of the dial, there seems to be a loss of three or four db. 73 & good DX to all in the new year.

DOUGLAS D. WHITE - Spence Apt. #8-d - Metropolis, Illinois

By way of intro - I am 23, have a degree in Math, and now am doing grad work at Southern Illinois U. Though a member of NRC for almost a year, this is my first Muse. 900k has been good to me lately. Besides logging KCLW-900 & KMCC-900 to give me all four Texans on that frequency, the following have been heard: Barbados-900 on 12/11 @ 7pm EST; CKBI-900 12/11, time unnoticed, but about 7:05-7:10pm w/WX for Saskatchewan and Manitoba; CJVI-900 on 12/15 @ 4:30am announcing as "The Sound of Victoria", then into an instrumental version of "Alone Again Naturally", moderate interference from pest "La Voz de Cali." Who was the strong EFC on 900 12/11 1-2am? Lots of call jingles given, but alas, I couldn't decipher & I have no tape recorder. Re Fr. Pejza's R. Mexicana"-580 in 12/7 IDXD, this is Chihuchua. I believe I remember Fr. Pejza mentioning that Co. Morelos was a suburb of Mexicali. Actually, it's half way between Yuma, Ariz. and San Luis, Sonora, for those Cal.-Ariz. DXers who are interested. I'm still awaiting the New Member Kit. Remember - NRC is the best thing to happen to Medium Wave DXing since the radio! (Welcome to the Musings, Douglas! Please drop in to our section OFTEN! -ERC)

EDWARD C. TAFEL - 413 Seymour Street - Syracuse, New York - 13204

Hi. I am a recent member of NRC, & it seems it would be a pleasure being a part of this great Club! Well, I have been DXing for seven years, mostly on Utilities, until the BOB interested me. I have been DXing international this last year, with a Hammarlund HQ-200, and a Hallicrafters S-108. I recently purchased an SM-1 - That works GREAT! I have veries from WROW WMBO WFBR, & Radio Belize-834. It seems they are being heard with fair-to-good signals lately (Radio Belize, that is). Recent card noted they have extended broadcast to 0500. (I think they go off around 1 a.m., Edward - about 2 Christmas AM -ERC) Recently I have heard WPOP WAPE WFIR CKWW (500w) WGBI & CMW-CMHI. Oh by the way, I have about 33 states (I hope WAPE comes through), seven provinces, out of the 231 stations heard. Most of the stations have come through, yet WFEA still refuses. I hope you all have a good Holiday! If you like to write, please drop a line. 73s & best of DX. (And a hearty welcome to you also, Edward! Pleas Muse regularly! -ERC)

ROGER W. WINSOR - 718 North Fremont Road - Valparaiso, Indiana - 46383

I am still alive & well, but doing nothing in DX. The AN situation is too much for me & I don't have any desire to coop myself up in a room a ay from everybody else and "plug in" as my wife used to call it. I have many fond memories with the ten-year association w/the NRC but I have to call it quits. So to you, NRC, good-bye and may you have continued success in DX NEWS and also with governing body. 73 to all. (Likewise, we'll miss you, Roger! -ERC)

MIKE LEVINTOW - 12213 Village Square Terrace #401 - Rockville, Maryland - 20852 9

In way of an introduction, I've been a member of the NRC since 1969 but rarely contributed in the past, so this Musing will be somewhat long. I have lived in Montgomery County, Md., except for five years in California, when I went to the University of Cal. at Berkeley. I couldn't get a decent job out there so I'm back here again. I work for U.S. Labor Department. I DXed extensively out in Cal. from 1966 to 1971, using an HQ-180 except for a short stint with an old NC183D which conked out after only a year of use. Most Cal. DX was done jointly with Dave Kulka of the URCA, and most of this stuff was reported under his name in the IRCA bulletins. In addition to these (which included about ten W-call graveyards) "solo" DXing produced WKAQ-580 WABA-850 WDFD-910 (jight pattern), WTIC-1080, WENK-1240, WEXY-1350, Virgin Islands-1000, WNCM-1380, WSAR-1480 CHYM-1490, WAFI/WKOG/WTOD-1560 (all 500w PSA), CFOR-1570 CKLM-1570 & FEN-1550 & 1580 as some of the better Cal. catches. I'm currently using a Drake SPR-4 RX & several types of loops - an SM-1, a Sans-rino loop, & an NRC FET Altazimuth loop using GPN's original FET pre-amp rather than the design given in the Altazimuth loop plans. As to reactions to the controversial Drake SPR04, it is the best RX by far used to date. The most obvious advantages are the highly accurate frequency readout & excellent audio quality, the latter especially valuable in trying to make sense of a weak foreign broadcast. Sensitivity is very good but the RX needs an antenna properly matched to the rather unusual unbalanced antenna input. The Sanserino Loop works poorly, but the SM-1 works fairly well, since the SM-1's output, like the SPR-4's input, is unbalanced. Selectivity - the 4.8k filter is best for ordinary even-frequency DX but the 2.4k filter is best for splits and DX close to strong locals. Even with the 4.8k filter, splits of 1k or less (such as the 1269-plus Cuban) have been heard w/readable audio w/proper use of the notch filter. A properly aligned R-390A RX might work better under some circumstances but it is so bulky and maintenance so complex (the SPR-4 weighs 12 lbs.!) that these factors would by comparison be significant disadvantages. Like many portables, the SPR-4 will run off 12VDC without an alternator. Try moving an R-390 outside to avoid electrical noise & TVI). For those who have made the bandwidth modification - excellent reception on congested frequencies has been obtained using the 4.8k filter & SSB. The notch filter & SSB limits undesired sidebands well, & the SPR-4's fine tuning is very hekpful in properly tuning for zero beat. V/5329. Good DX.

JOHN OLDFIELD - #18 10940 83 Street - Edmonton, Alberta - T5H 1M1

Alberta gets four new stations: CJOK-1230 1,000/500- Ft. McMurray, which will program much ethnic (FR, EE, Indian, Ukrainian); CJPC-1170 10,000/5,000 Red Deer; CHDV-1340 1,000/250 Brooks (two hours live daily; otherwise //-CHDV-910 MSP Drumheller), and CJCR-1490 Coleman \*three hours live daily; otherwise //-CJOC-1220 AN-6 Lethbridge). CJCR is on the air, & powerful CBXN moved to 1400 to avoid CJCR. More hockey network stuff: CJCA-930 CFGP-1050 & CFAC-960 carry WIA Alberta Oilers' games. CFAC, CKWV-980 CJDC-1350 (and many others) carry NHL Vancouver Canucks games. Radio HL 610-1230-1400 heard saying "Your 24 hour voice in B.C.'s South Central Interior." Local smooth moves: CPMN-1260 is switching to a dult rr, now AN-6, off HMs 3-7:30 EST. They publish an SC too. CJOI-1440 (ex-NCP, mostly MoR tapes) is now mostly rr & off AN daily 3-8am EST. CHQT-1110 MSP is now "Sunds F.miliar" (no longhair - just uptempo & flashbacks). Local CJCA-930, CFAC-960, CFCI-1060 & CHAB-800 are all 50 years young! Those writing for a CJCA verie should ask for their 50th year coin - nice. Has anyone else seen Britain's BBC Radio-TV postage stamps? Re last Musing: Phone Freak number is 424-7555. Anyone who got a slightly fast cassette of mine, let me know. Glotz must have zilched the voltage. My voice isn't really that weird. "Chicken Man" and "The Tooth Fairy" are gone, but local CHED-630 proudly (?) presents "The Stoned Ranger" (And Toronto); also carried by CK62, Regina. (Who's that?? -ERC) Page should get the Glotz Award for "Why is a Country?" Simply brilliant! And now I can laugh at splitting the NWT, which is NOT as funny as the Countries of Scotland, Wales & Alaska, hi. I was fooled last month by CJVB-1470 MSP carrying Chinese. Vancouver has the second largest Chinese population in NA. I've never seen it in IRCA or NRC but all Canadians must play 30% mx written or sung by a Canadian. All logs must now record EVERY song to prove it to CRTG. If you hear a rare Canadian, song titles MAY get you a verie! Merry Christmas or what you celebrate.

edited by Page\*  
Taylor  
IDXD MONITOR REPORTS  
BOX 282 BUTLER, N.J. 07405

- 133 Algeria. Ain Beida 0625-0630, 12/10 with chanting, male announcer 0630, then chanting resumed a few minutes later. Moderate KED-550 slop at times. (Roger Giannini, Belleville, Ill.)
- 140 Fiji. Currently 14 kw., sked 1755-1100 in EE/Fijian. (Danish Shortwave Club International, via RJE; henceforth:DSWCI)
- 184 France. Marseille, new GRTF outlet, France-Inter Marseille noted w/s-off 2202 (DSWCI)
- 195 Dominica. Roseau allegedly here, ex-695. (DSWCI)
- 220 Canary Islands. RNE, Santa Cruz de Tenerife: SKED: 0645-0300 (DSWCI)
- 274 Libya. El Gavarsha; SEED: 0400-2330, 1830-1900 external svcs.; All AA; same for 1052, 1394, 1484. (DSWCI)
- 225 Surinam. NRS reportedly operating on 2 rated power (now 25 kw.) to preserve diesel fuel for generators. (DSWCI)
- 237 Israel. Tel-Aviv taped 2241-2252 s/off on 12/9 o/u Barcelona tax to phoned tip from GPN - at s/off, woman said, "shalom" followed by Israeli National Anthem ("Hatikvah"-ed) - anthem checked against album of National Anthems owned by GPN for verification. (Ray Moore, Massachusetts). (Recommended to all IDXD types, an LP album of national anthems; I have "National Anthems of the World," Everest 3239 stereo, list \$4.79-ed.)
- 246 Netherlands. Lopik/Hilversum I 0450, 12/8 w/woman talking, fair for country #49. Moderate OHL slop. (Giannini, Ill.)
- 250 Alaska. KPQD, Anchorage 0923-0933, 12/11. Steady 85 w/rock, ads, jingles and mx. Only Alaskan to show all AM (Oldfield, Alta)
- 250 Japan. JOIB Sapporo 1045 12/11 //770-JOUB. Channel clear w/EE lessons. A fair 84. Even translated "Jingle Bells". (Oldfield)
- 250 Colombia. EJDE, Medellin 0700, 12/11; hrd ID that mentioned Colombia in rap/4-fire 88. (Giannini, Ill.)
- 270 Japan. JOUB, Akita 0923, 12/11 86 w/EE lessons on a clear channel. Note that no 750 at this time, only a clear KPQD. NRE pipe 1000. Balog at 1045, up to 40/89 w/some fades to 86 (sw,geel-ed). Balog again 01120 still w/EE lessons, but some WABO skip in.(now, that's more familiar, John-ed). This one is old hat stuff to those on the WC. (As is your source of QRM on the WC, hi-ed). (John Oldfield, Edmonton, Alberta)
- 270 El Salvador. "Gadens K-L", either Sonsonate or San Miguel hrd atop w/WABO SF 0418-0510 12/15, and //765 and 760. Talk, some slow mx, occasionally QRM de Colombia, hat badly by OMKB, 771.1 (Russ Bimunds, NJ)
- 275 Costa Rica. TIM 0445, 12/15 with strong carrier, poor audio, lengthy talk pgs. (RJE)
- 300 Mexico. Ciudad Juarez, Chih., changed calls to IEROK on 12/4; AE rock format; however, noted off 8M 12/10, perhaps also SF NMS. Automated rock, no live DJs after 0600, no mx or w. ID as "The world's most powerful rock station," also, "From the rock of the world, IEROK, El Paso." QRA: Box 188, El Paso, Texas. (Richard Noel Allen, Billings, Oklahoma via RJE and DBED)
- 28 Andorra. Good only between WBAF cuts 2355-0000 12/11, s/off 0000. Not always separable from WBAF slop. (Giannini, Ill.)(Pse try to include more pgs details if possible, e.g. type of mx, etc. This freq dominated by Morocco here, Andorra now playing 2nd fiddle, hi-ed)

- 844 Gilbert & Ellice Islands. Tarawa, VSZ-1 0807-0918 12/11. A steady 89 except for one 40 second fade to 83. YL talked 0807-0816. Songs w/man and YL announcer to 0828. Man and songs to 0859:30, f/by IS and ID. EE songs like Roy Orbison. Blasts of terrible static. Another easy one for WOCers, but not here, as only 3 times last year. (Oldfield, Alberta)
- 872 Unid. pose AFN 2325, 12/10 with weak audio, easily separable from WWL. (Giannini, Ill.)(what was audio doing, OM?ed)
- 1000 Mexico. XROY (R,Mil) 0759 12/11 w/a good signal o/KTOK with talk and some fast mx. (Giannini, Ill.)
- \*1007 Netherlands. Lopik/Hilversum has program II from s/on to 1900; then program III from 1900-0000. (DSWCI)(Might help in //to Third Program on 1594-ed)
- 1030 Solomon Islands. Honiara, VQO at 0830, 12/11 Polynesian mx, poor, w/bits of KBQR. My 2nd log of this long-sought miracle. (Oldfield, Alta)(Amen, and nice catch!-ed)
- 1040 Colombia. HJAI, Barranquilla w/uptempo mx 0630, 12/17. Rapid talk. This one has a new slogan now also, but they still mention R. Tropical. (Giannini, Ill.)(Do you know the new slogan?ed)
- \*1070 French Guyana. Cayenne reportedly in operation with new SKED: Monday-Friday 0915-1130; 1500-0730; 2030-0115. Saturday: 0915-1130; 1500-0200. Sunday: 1000-0115. (DSWCI)
- 1100 Colombia. HJON, R. Rele; 0815, 12/11 mentioning Bogota, and playing slow 88 songs. WWWE popped on OC and helped reception immensely at 0815. (Giannini, Ill.)
- \*1155.247 Costa Rica. Unid noted here 0300, 12/22 on high side of YS - no ID, although sounded //various R. Monumentals. Help, HPE, RSW, GH? (Taylor, NJ)
- 1160 Unid. 0605, 12/17, 88 w/uptempo mx o/u KSL. Who? (Giannini, Ill.) (Betcha your SP-000 it's new Dominican, "Radiolandia", hi.-ed)
- \*1169 Afars & Issas. Djibouti SKED: 0300-0615; 0900-1030; 1530-2000, weekdays. Sundays: 0500-1000; 1530-2000. (DSWCI)
- 1170 Colombia. I must point out at considerable length that the "R. Ambala" hrd on 2340 (but no longer) is pronounced as follows: shm-bah-TAH. Thank you. (Glenn Hauser, Texas).(de nada, y bienvenida a VJ., Glenn-ed)
- 1214 Albania. Tirana 0330, 0430 on 12/8, 12/9, 12/10, 12/11. All in AA, dominated R. One through 0555 on 12/11 at last check, R. One only a het considering the armchair level of 12/9, when they were noted between 0500-0715 w/light mx. Only moderate slop from WCAU. (Giannini, Ill.)(excellent report-ed)
- \*1265 St. Kitts. New 50-kw. outlet planned here operated by owners of PND2-1295; same format planned. Scheduled air date set at 1/1/75. (DSWCI)
- \*1265 St. Kitts. "Radio Paradise" noted testing 0322 12/22 concluding announced ET w/Xmas mx; 30/89 signal with super-modulation; P.O. Box on St. Kitts given as mailing QRA, but will need to replay tape to get box number. Complete ID by announcer with US Southern accent. (Taylor, NJ)
- \*1295 St. Maarten. PND2 will close down when new 1265 takes to the air; facilities will be assumed by a new commercial outlet. (DSWCI)
- 1330 Guatemala. TGMU Guatemala City "Union R." 0532 12/15 w/LA mx, f/by ID on top briefly. (Bimunds, NJ)
- \*1330 Nicaragua. Confirming WRB listing of R. 15 de Septiembre, Hotel, move from 1210 is my reception on 2660, 12/16 0144 w/"Canal 1,330" ID (Beware Quesca, Ecuador stn previously hrd here, listed w/same ID), distorted dedications;0259 taps, s/off, MA. hats from 2-way QRM; poor (Glenn Hauser, Texas)
- 1376 France. Lille fair 2300 (date?-ed), hearing this 4 kHz away from KWK-1380 w/out MF in SP-600 (Giannini, Ill.)



- 1394 Albania/Togo. Tirana excellent 0500, 12/9 in GG, 0530 pause hrd audio presumed to be Lome but not strong enough, however. Tirana has been good here 2300 in SS from 12/8-11. Mod WFTW-1390 slop at times. (Giannini, Ill.)
- \*1399.75x Mexico. XELH, Acaponeta, Nayarit, first time hrd on 2798.5 this season was 12/17, 2306 w/ranchera mx, ID, MST TC, "... complacencias musicales... todos los días..."; 2-way hets but fair. Off-freq offers opportunity for those who may need Nayarit on MW. (Hauser, Texas). (Het noted precisely here 12/23, 0200, bearing correct...are they still here, Glenn?-ed)
- 1420 Western Samoa. 2AP, Apia (or KOCH, Hawaii) 0835-0850 12/11 poor w/Poly mx. Could have been both. Checked all Hawaiian freqs all AM, but none noted. (Oldfield, Alberta)
- 1425 Greenland. Thule AFB 0710-0735, 12/11 solid rock at S6 (Oldfield)
- 1475 Austria. Vienna 2255, 12/8 with light mx, poor. First time logged for country #50, but some slop from WMBD-1470. (Giannini, Ill.)
- 1525 China People's Republic. Urumchi taped again 2134-2203 12/14 until tune-out - at 2153, "Govorit Pekin" ID by woman, then anthem "East is Red??-rm)(Da.-ed) and carrier cut 2155:30 - very weak carrier left on freq - at 2159:30 carrier back on but much weaker and at 2200:30 chimes and into standard format but too weak to get voices. (Ray Moore, Mass)(Tax excellent report, Ray-ed)
- \*1538 Africa & Issas. Djibouti SKED: weekdays, 0300-0600, 0900-2000; Sundays; 0500-2000. SW 4780 kHz on late for Ramadan this year. (DSWGI)
- 1565 Colombia. HJZF definitely on 3130, 12/17 as early as 2320 w/uptempo mx; very weak; 0400 brief s/off mentioned a freq in the 15's, but ID unreadable; NA and off. RFS says R. Sensación, Manizales, is on 2565. (Hauser, Texas)
- 1586 W. Germany. Langenberg 0030-0500 on 12/9 armchair copy. Earliest logging of WDR came on 12/11 at 2245 w/symphony mx and fair lvl. (Giannini, Ill.)
- \*1588.5 Mexico. XEPT, Misantla, Veracruz, during sports coverage 0343, 12/16, ID in passing as Rdif. XEPT; good. (Hauser, Texas)
- 1590 Mexico. XEVOZ, Mexico, DF, finally definite R. Voz ID 2301 on 12/17, giving phone number for mx pgm; usual het from XEPT (2nd harmonic receptions)(Hauser, Texas)
- \*1594 Greece. AFRTS, Athens, 1 kw. SKED: 0400-2300; news hourly 0400-2200. ("Athens News", 11/28/72; Taylor, NJ via brother Pat vacationing in Greece.)

"Rarely do I mention any radio publications in this column, although some gems have crossed my desk. By policy, I do not 'plug' any dx aid, log, book or device. But in the constant stream of dx material, an occasional superlative piece of work is so outstanding as to warrant special attention. The nighttime pattern book of the NRC is such a publication..."

(Matt Zahner, BCB Editor, in the bulletin of the Newark News Radio Club)

Deadline: Fridays of each week.  
DX Phone: 201-838-5721 (1800-2200 daily, prepaid only, please.)  
Receptions:

- 527.4 Costa Rica. R. Rumbo, Cartago msd. here 12/27, 0050 (Schatz, FL)
- 533.000 Unid. msd. here 12/27, 0052. (Schatz)(poss. Algeria?-ed.)
- 534.994 Grenada. R. Grenada msd. here 12/27, 0054. (Schatz)
- 555.008 St. Kitts. ~~WIZ~~ measured this frequency 12/27, 0055 (Schatz)
- 570 Colombia. HJND, Bogota noted AN 12/25 with Xmas programming (JMP)
- 606.002 Costa Rica. TIAV measured here 12/27, 0105 (Schatz)
- 615.012 Unid. LA msd. here 12/27, 0057. (Schatz)
- \*629 Liberia. ELBC, Monrovia proposes increase to 50 kw. (Schatz)
- 650 Dominican Republic. HIAT, R. Universal, Santo Domingo on 12/25, loud over HJJK w non-Xmas programming (typical LA stuff). (Harry L. Helms, North Carolina)
- 654.996 El Salvador. YSS measured here 12/27 at 0101. (Schatz)
- 660 Unid. Thought it was an Indian language here 12/25 at 1056, but probably was a mixture of Maori (or related) and FF, as "Joyeux Noël" hrd after EE chorale arrangement of "Go Tell it on the Mountain". Sounded like EE nx 1105, followed by Polynesian mx. Slow, deep fading. 2YC with mx for the natives (Pete Taylor)
- \*665 N. Korea. MM 12-18 at 1051 in KK, but vy high NL prevented much from getting through. (Pejza, Calif.)(is this a new outlet?-ed)
- 700 Unid. 12-25, 0910 in SS doing a job on WLV, but on top only briefly. (Pete Taylor, Calif.)(my guess is HJOK, R. Sutatenza-ed)
- 715 Unid. LA here 12-18, 1155 with singing, faint signal. Honduran only one here which has been reported, but their s-on listed 1200. (Pejza, Calif.)(probably they a bit early; slogan now "R.Caribe"-ed)
- 724.971 Surinam. SRS measured here 12-27, 0107. (Schatz)
- \*735 Unid. noted 12-31, 0600 s-off with Ecuadorian anthem. (Taylor, NJ)
- 745 S. Korea. HLKH (not HLKG as rptd in DXN some time ago) Kwangju tentatively the one hrd 12-18 at 1150; music and male vocal, too faint to be sure of language. (Pejza, Calif.)
- 750 Nicaragua. YNX, Managua on 12-25, 0920-0955 w-emergency program. Names of persons and families w-info on condition. Various spkrs, sometimes would be interrupted at mike and would hold conferences on the air, background sounds of chairs moving, and chatter. Vy poignant speaker 0925 kept repeating "Managua está destruido" over and over; carrier left air several times. Several Americans listed as being safe---places like Brooklyn, San Francisco, Miami hrd. WSB off, heavy QRM from another SS, lost to them at 0955. No other YN either SW or MW noted during several checks this morning. Most saddening to hear something like this on Christmas morning. (Helms, NC)(agreed-ed)
- 750 Colombia. Medellin, HJDK 12-18, 0810 bombing in; Colombians good this AM. (Pejza, Calif.)
- 760 Cuba. OMOI, Havana noted 12-18, 0806 with Reloj Nacional format along with WJR and KGU. (Pejza, Calif.)
- \*760.604 Venezuela. YVQQ, Puerto la Cruz measured hr 12-27, 0109 (Schatz)
- 764.988 El Salvador. YSKL msd here 12-27, 0110. (Schatz)
- \*YSKL probably the one 12-18, 1148 with music, but faint. (FJP)
- 770 Japan. JOUB, Akita (NHK2) 12-25, 1006 and 1110 in JJ. What a signal! (Pete Taylor, Calif.)
- 770 Colombia. HJJK, R. Tequendama 12-18, 0844, in very well with rock instrumental and ID. (Pejza, Calif.)
- \*771.1 Costa Rica. TIW, R. City measured here 12-27, 0112. (Schatz, FL)
- \*805 Unid. Feidt's "R. Cero Hombre" also hrd here, 12-25, 0256 with "El Condor Pasa", 0258: R.           , similar to above by YL, then EE mx; fade in and out. (Glenn Hauser, Texas.)
- Unid. measured 804.985 12-27, 0113. (Schatz, Florida)

- 810 Colombia. HJOY, R. Sutatenza 12-18, 0924, all alone on the channel after KGO's carrier went off, with tropical music. (FJP)
- 824.981 Costa Rica. TIOS, "Titania" measured here 12-27, 0208 (RFS)
- 834.044 Belize. "R. Belize" measured 12-27, 0115. (Schatz, Florida)
- 840 Panama. HO180, "R. Libertad" 12-18, 0928; first definite ID with SID. All alone. (Pejza, Calif.)
- \*"R. Libertad" ID with Glenn Miller type mx popped in obtrusively during very slow quiet piano mx 12-25, 0903. I tuned in agn 0917 and heard "Back to the Bible" in EE and some cl mx, and for rest of morning couldn't ID either. WHAS OC on 0935, TT 0937, son 1003. One set of time pips hrd at 0900 and two of them at 1100 but just couldn't get IDs. Pop LA mx after 1030 over and under WHAS. (Pete (can anyone confirm my suspicions that it might have been St. Lucia, "R. Caribbean"? -ed.)
- 844 Gilbert & Ellice Islands. VSZ-1, Farawa noted 12-11, 0822 with woman talking, mx 0825, more mx 0837. (Foxworth, NY)(Welcome, Bob! hi)
- \*Farawa 12-18, 0923 with familiar gal talking. (Pejza, Calif.)
- \*Farawa 12-31, 0742 fade-in with woman talking, peaks to S7 (Taylor, NJ)
- \*Farawa noted late December, mentioned on phone. (Schatz, FL)
- 850 Colombia. HJKO, Bogota hrd 12-25, 1008 with CARACOL ID easily under KOA OC. (Pete Taylor, Calif.)
- 850 Guatemala. TGX 12-18, 1142 in quite well with mx, spots with mentions of Guatemala. Forgot to report it, but also heard with ID as "R. Ciro's" a couple of weeks ago. (Pejza, Calif.)
- 855.151 Netherlands Antilles. PJO2, Curacao "Curom", measured QRG here on 12-27, 0116. (Schatz, Florida)
- 877 N. Korea. Womsan 12-18, 0950, kind of faint with man in KK. (FJP)
- 884.999 Montserrat. Plymouth msd 12-27 0118. (RFS)
- 930 Nicaragua. YNW, "R. Mundial", Managua on 12-18, 0901. A new one for me; finally, KHJ's SP and my listening coincided. (congrats-ed) Tropical mx, interspersed with announcements in SS. KHJ back on at 0953 recheck. (Pejza, Calif.)
- 964.943 Nicaragua. YNIW, "R. Managua" msd. here 12-27, 0211. (RFS)
- 967 S. Korea. Seoul. 12-18, 0955, another new one with man in KK; faded across the hour (naturally); but think I heard one chime. (FJP)
- 995.561 Ecuador. HOEW2, Guayaquil msd. here 12-27, 0123. (Schatz, FL)
- 1007 N. Korea. 12-18, 1003 fair with man in KK. North Koreans not up to their usual strength this morning. (Pejza, Calif.) (Hamhung moved? -ed)
- 1046.722 Panama. HOJ2, Las Tablas measured here 12-27, 0127. (RFS)
- \*1100 Nicaragua. YMQ La ~~XXXX~~ presumed earthquake victim as no longer hrd e.g. 12-24 at 0422 on 2200 kHz. harmonic. (Hauser, Texas)
- 1100 Antigua. "Zed-D-K" with special Christmas program AN 12-25. Noted at 0824 tune-in and left all clear over HJCN after ~~XXXX~~ AXR off 0830. "Merry Xmas from the Big 11", etc. and much traditional Xmas Should have been easy anywhere in North America. (Helms, NC)
- 1124.769 Costa Rica. "R. Capital de C.R." msd. here 12-27 0137. (RFS)
- 1140 Philippines. 12-18, 1157. VoA, Porco; sked for s-on at 1200. Noted JJ scounding mx, followed by snatches of "Rudolph" and "Jingle Bells". (not sure if it was VoA); ID at 1159, Yankee Doodle IS at 1200, followed by CO talk from man and woman. Somebody a little bit off frequency here, with a low rumble. (Father Jack Pejza, San Diego)
- \*1201.5 Unid. LA 12-27 at 0140, possibly an HJ. (Schatz, Florida)
- \*1246.06 Haiti. 4VIM, "Rif. Haitienne", Port-au-Prince measured here 12-27, 0146; nominally 1250. (Schatz, Florida)
- 1265 St. Kitts. "R. Paradise" 12-28, 0056-0059 noted with powerhouse signal; 0059, end of test xmsn with organ mx; announced this QRG with 50 kw. ~~Said~~ would resume tests 12-28 PM and begin RS early 12-29 AM. Another 10 kHz. shot. (Bill Feidt, Laurel, ~~MD~~)
- \*12-30, 0300 ID, organ mx. (Alisaukas, NJ)(Welcome, Bill! -ed)
- \*12-27, 0000 ID; tip called in via land-line. (Carl Junker, Ohio)
- 1265 \*"Paradise" 12-27, 0100 with ID, s-off with complete details; ADD: Box 423, Basseterre, St. Kitts. (Jim Peterba, Penna. phoned)
- \*"Paradise" here 12-26 2345 with Gospel mx, weaker here than up north. (Schatz, FL via phone)
- \*"Paradise" 12-26, 2235 with Gospel mx. (Joe Fela, NJ)(Welcome! -ed)
- \*"Paradise", 12-25 00019 with good signal (S-8 on meter) continuous Xmas mx 'till ID 00039 with EE announcer. More Xmas mx to 0100 with another ID, "R. Paradise, 50,000 watts from the island of St. Kitts." Then Bible reading afterwards. Not listed WRTVH. Call? (Richard Frcho, DC)(Welcome, Richard! -ed)
- \*1280 Haiti. Port-au-Prince; new outlet: R. Métropole. Noted s-off 0130. Tip via phone. (Ron Schatz, Miami, Florida.)
- 1294.995 St. Maarten. PJD2 measured here, still on 12-27 0148 (RFS)
- \*1295 Guinée. Previous African mystery noted here this past summer possibly newly listed Gonakry outlet with 10 kw., same pattern as 1402.7 (47 227<sup>o</sup>). (Schatz)
- 1308.105 Cuba. CMHK now measured here; 12-27, 0223. (RFS)
- 1315.014 Colombia. Unid HJs, possibly more than one; 12-27, 0150 (RFS)
- \*1331.659 Cuba. CMJS, "Reloj Nacional" measured here, ex-1330; 12-27 at 0155. (Schatz, Fla.)
- \*1332 Cuba. CMJS "Reloj Nacional" good 12-25 0720. Ciego de Ávila from 1330 (Hauser, Texas.) (Looks that way, Glenn. See above. -ed)
- \*1335 Unid. LA 12-25 0721 in SS talk; cf. RFS' unID last season in IRCA Foreign Log. (Hauser, Texas)
- \*1349 Mauritania. Nouakchott reportedly increased power to 100 kw. (RFS)
- 1350 Hawaii. KIVM, Lihue 12-25, 0840 good with commercials and mx. (RFS)
- 1380 unID. LA 12-25, 0845 in the clear; sounded like an XE with pop mx. (Pete Taylor, Calif.) (Sounds muchly like XE00, "R. Eco" -ed)
- 1384.989 Haiti. 4VS measured here 12-27, 0154. (RFS)
- \*1403.852 Cuba. Most likely OMJI msd. 12-27, 0155. (Ron Schatz, FL)
- 1435 Unid. Carrier 12-18, 1118. I'd like to think it was the Cambodian tentatively reported by Art Peterson to IRCA, which he hrd 1240-1305 12-11. He also just got the carrier. Either time is too late for Saba or "Kelkboom". (Pejza, Calif.)
- 1435.002 Saba. PJF1 noted in EE 12-27, 0157 while measuring. (RFS)
- \*1445 Colombia. HJGM, R. Sogomoso 12-25, 0723 on AN; EST TC, ID. Again 0953; also hrd 12-23, a stn on this freq at 0418 in SS mentioning Huasteca; 0425 CST TC, so maybe something else. (Hauser, TX)
- 1445 unID. LA 12-25, 1030 in SS with mx and talk. (Pete Taylor, CA)(prob. Sogomoso, Pete; note Glenn's report above. -ed.)
- 1445.198 Colombia. HJGM, Sogomoso msd. here 12-27 0227. (RFS)
- \*1449 Guatemala. TGMS, R. Nacional, La Voz de Mazatenango 12-19 on second harmonic; 1156 MA, 1158, poetic s-on; then program, "Buenos Días, Campesinos." (Glenn Hauser, Texas)
- \*1454.5 Nicaragua. YMTJ, "Ecos de las Brumas" is stronger this year than last, reflecting WRB-reported power increase to 5 kw.; hrd on second harmonic 12-24, 0054 ending relay of national net on earthquake relief; ID. (Hauser, Texas)
- \*1459 Colombia. "R. Sincelajo" 12-25, 0756, "El Mundo de la Música"; 0809 ID in verse; Nominal 1460. (Hauser, Texas)
- \*1465.264 unID. LA noted here 12-27, 0139 during measurements. (RFS)
- \*1475.093 Haiti. This one noted on AN lately, poss for Holidays. (RFS)
- 1488 Costa Rica. R. Puntarenas hrd 12-25, 0728 with SS versions of NA carols, 3-min fast TC (CST), 0801 wrapup, then song. 0805 check, was off. No mention hrd of R. Columbia affiliation. (Hauser)



# NATIONAL RADIO CLUB

Please reply to:



Monitoring Report for Radio Station \_\_\_\_\_ on \_\_\_\_\_ kHz.

Date \_\_\_\_\_ Monitoring period \_\_\_\_\_ to \_\_\_\_\_

It was my pleasure to monitor transmissions from your station during the above period. As proof of reception I offer this log of items heard:

This is the new NRC domestic report form - carefully designed by Jerry Starr of the NRC CPC and NRC HQ to produce the optimum domestic returns: short enough to keep the station personnel interested without becoming bored yet long enough to constitute a meaningful report. These report forms are printed on heavy bond paper by dark and clear offset printing. If you can't take the time to send a personal letter, do the next best thing - send an NRC domestic report form! Available immediately from NRC HQ for \$1.50 for 75 sheets (so priced to minimize postal costs).

On the basis of the above details, I wish to request a brief letter confirming the fact that I have received your station's signals. I collect these letters as a hobby and would be most pleased to add your confirmation to my collection. For your convenience in replying I have enclosed return postage. Thank you for your time and consideration. I hope this report has been of interest to you.

Sincerely,

### Technical Information

- Receiving equipment:
- Interfering stations:
- Reception conditions:
- Other stations confirmed in your area:



- 1525 Costa Rica. TIERAW, R. Columbia 12-25 0758 s-off with own theme song to tune of "Get me to the Church on Time" over HNL here above 1500; 0805 still OC. Turrialba? (Hauser, Von Ormy, Texas)
- R. Columbia, Turrialba tentatively the one very faint with mx 12-18, 1115. KOMA(?) s-on 1116 killed it. (Pejza, Calif.)
- 1548 Costa Rica. "R. Cima", TIGOR, 12-25, 0830, with sermon and soft pretty mx; "Elisabeth Serenade" by James Last at 0835. Still quite good at 1015 and 1120. (Pete Taylor, Calif.)
- 1550 Puerto Rico. WKFE, "R. Cafe", on 12-25 at 0900 with normal pgms., no Christmas mx, but jingles did use "Feliz Navidad" by Feliciano as YMD-675 did last year. (Harry L. Helms, North Carolina)
- 1555 unID. LA 12-25, 1020 fair to weak in SS with Andean type mx. (PVT)
- 1560 Mexico. XEVIP, 12-25 from 0815 tune-in good all AM through about 1130. Automated Christmas mx, "Radio V-I-P" IDs in EE, SS ID hrd 0834. (Pete Taylor, Calif.)
- 1561.141 Dominican Republic. "Radio Pedernales" msd. here 12-27 0203 (RFS)
- 1565 Colombia. "R. Sensación", Manizales 12-25, 0400 with, "la frecuencia Súper ..." Reception on harmonic. (Hauser, TX)
- 1580 Thailand. VoA 12-18, 1203. Switched over quickly after getting VoA-1140 to get one faint "Yankee Doodle" strain @1203. Mixing spur here from XEPRS and KOGO had me fooled earlier in the evening. (Pejza, Calif.) (Nice catch!-ed)

Why all those funny-looking question-marks this week (like this one)? It appears that this typewriter is inheriting the characteristics of that of ERC - the question-mark and slash-mark key is discombobulated. That explains why the new format for dates: "Necessity is the mother of invention," as my father-in-law is fond of saying.... don't know yet what he's trying to get at, hi. Many, many thanks to all this week for improved support.... special thanks to those who phoned, and to Ron Schatz for those 40-some-odd frequency measurements; all dictated over the land-line. A most happy and prosperous New Year to all.... pt.

DAVE SCHMIDT - 8 Valley Terrace - Apt. 9 - Wilmington, Delaware - 19802  
MM 12/4 was a washout here. The WSPR DX TEST showed up well, but it was verified about 1966. WEIR didn't show. I doubt if they were on. Only other goodie noted was KWWL-1330 o/WHOT till their 2am s/off. On 12/6, first time I tried any SSS DX in about two years, netted nothing, but @ 5:45pm, a good tape & info on WKNE-1290 5:45-6pm. I just about fell over, though. They had Santa Claus on the air accepting orders from kids via the landline, hi! (Did you call, Dave? -ERC) A few more veries in, v/m WCHL-1360 DX, nice v/l from CHLO-1570, & a/v/"thank-u-gram" from WRPM-1530. In case anyone is interested, the phone number here is 302-762-2852 but it's hard to catch me in! I've got a few ECs I've got some old traders I used to keep when I was collecting SCs, so if anyone wants any, send me a large SASE & I'll stuff it. That's about all from this end so 73s for now.



EDITOR:  
 P.J. EDWARDS  
 Box 948  
 Wayne, N.J. 07470

midnight to sunrise

Greetings and solutions. As of this writing (12/31) the NRC log copy has been rec'd in Boston during the past week. All three DX stations from me this time done not on my usual HQ-150, but the set I originally started serious DXing with: a Fisher AM-FM Stereo Tuner (Vintage 1960), which I'm resurrecting for possible sale (along w/ accompanying power amp) or use as a backup rx until I can scare up the \$\$ for another 150 or other communications rx. If anyone is interested in the Fisher and its power amp, I'll be asking in the neighborhood of \$175-200 for both. All tuner-preamp functions ok. Will work over power amp soon, but no major problems with it either. Antenna for this run the 2' loop, but w/no amps as one is out of commission temporarily. Was only giving the Fisher a run thru its paces to check it out when this stuff hrd. Latest item of 3 also on 150.

sunset & evening

- 540 WYLO-WI Mixing w/WRIC @ SS, s/off fair 1714 12/21, one of my most wanteds. (Jim Poterba, Yardley, Pa.)
- 970 CBZ -NB Hrd well w/opera, then ID 2200 12/16 (Mike Collins, Stratford, Ct.)
- 1000 WSPF-NC Noted w/CKBW w/several jingles noted, just in/out for abt 5 mins 1705 12/15 (JMP)
- 1140 WBZY-PA Finally hrd this one thru WRVA - several IDs 1645 12/13(JMP)
- 1300 WKCY-VA O/WMTN w/ s/off, several good IDs noted, 1659 12/22 (JMP)
- WMTN-TN Almost alone in WFBR null ((what null, hi -RJE)) no WAVZ w/nx, sponsored by Morristown Lincoln-Mercury 1700-05 12/22 (JMP) \*\* Nice - RJE
- WOOD-MI O/WMTN by 1710, spot for bicycle dealer in Grand Rapids, 12/22 (JMP) \*\* Also nice - RJE
- 1480 WMAX-MI Just a brief ID from this one, w/WHBC 1700 12/19, vy poor signal (JMP)
- 1520 WDGL-GA S/off noted o/WXPQ-WKWB w/ good sig 1726 12/16 (JMP)
- WXPQ-GA Noted vy strong 1715-30 12/16, many spots for Eatonton & Greenville. (JMP)
- 1570 WGSR-GA S/off noted 1730 12/13 vy wk, needed several replays of tape to get ID. (JMP)
- 1580 KTUF-AZ I may be the last one on the EC w/this, but finally hrd just after KPIK s/off way o/WCLS rr w/ c&w & KNIX IDs 1835 12/31 Unless they've changed call to KNIX on AM within the last week, their IDs are illegal. My most-wanted domestic. (RJE)
- KPIK-CO Finally good enuf for clean tape (w/Fisher yet) w/promo, ID and c&w 1820-23 12/31 (RJE)
- 1590 WZUM-PA Hrd s/off whilest lst tuning up Fisher o/u WQQW for newie 1700 12/31. (RJE)
- WACA-SC End of s/off thru clearly 1715 12/16, WQQW surprisingly weak
- WVNA-AL Hrd o/WQQW w/ patt. chg. anct, inviting fringe area listeners to tune 100.3 FM @ 1747 12/20 (JMP) \*\* Very nice - RJE

changes

- + 600 WICC-CT Regular SP now SM 0400-0500 (MC)
- + 1470 CFRW-MB CP: 10000 U2
- + 1140 CP -BC Rogers Pass, 40 40 U1 //CUBU-690.

7/6's

DECEMBER: 2nd ID: WIGD-940; 3rd ID: WFDJ-1550

- 540 CBK -SA Hrd vy well 0055-0200 s/off w/nx, jazz pgm 12/11 (MC)
- xx 550 KSD -MO Finally 0159 12/18 s/off SSB (Wes Boyd, Youngstown, Ohio)
- xx 540 KNOE-LA Fair to good on 12/15 TEST. (Boyd)
- 550 KTSA-TX W/ Scott Ross show 0250-0330+ 12/18 w/Jamaica in null (Boyd)
- 560 WHBQ-TN Good o/WIND in WQAM null all AM 12/13 (Boyd) (Boyd)
- 570 unID 3rd c&w stn. here AN in WNAX null & WWNC poor --WKYX?? 12/13
- WAAX-AL Noted s/off 0115 12/13, same sked as last yr. (Boyd)
- KVI -WA Hrd 0259 12/11 w/ surprisingly good sig w/little fading, noted MoR then ID, followed by mt rx. WKBN off, unID OC looped E-W required use of single-sideband to improve readability
- WFAA-TX W/good sig 0209 12/11 w/MoR & talk. OC looped but traces of KVI and a weak unID noted also. No sign of CFCB. (Mike Levintow, Rockville, Md. - also previous item) \*\*Weak unid would've been CFCB or WWNC, methinks - RJE
- 580 WIBW-KS First time here, pulled ID during promo for WIBW nx team, 12/11, 0410 (JMP)
- 600 WMT -IA Bombed in in WICC null w/promos for Hawaiian Holiday Contest 0448 12/17 (JMP)
- WTAC-MI Hrd well w/WICC off 12/15 w/ heavy album rock 0230-45 (MC)
- WPDQ-FL Hrd 1st time atop channel 12/15 w/ r&b 0245-0300 (MC)
- WMT -IA Hrd atop channel w/ standard MoR & nx ard 0300 12/15 (MC)
- WCAO-MD Hrd atop channel w/ oldies rr 0315-30 12/15 (MC) (MC)
- unID Lively tele-talk pgm 0330-45 in the mess 12/15; assume WREC.
- 620 WWNR-WV Mixing w/WSM-WHEN w/ WV nx,wx and some rr 0458 12/17 (JMP)
- CKCK-SA Only thing in WSUN null 0315-30+ 12/18 (Boyd)
- 930 WKY -OK Good w/WB N-WJAX-WPAT a rent most of AM 12/13 (Boyd)
- 940 CJGX-SA AN c&w w/KIOA absent 0205-25+ 12/9 (Boyd)
- 1070 CHOK-ON On past reg. s/off for ER 12/5 (Boyd)
- 1090 WMMW-OH TEST 12/11 hrd fairly well here w/ c&w mx around 0200 (MC)
- Unbelievable on TEST s9+ the whole time. 0300-30,12/11 (JMP)
- 1110 CHQT-AB Hrd fair-to-poor u/WBT OC 0100 12/11 w/nx, wx, TC and ID as "Radio 1110, Edmonton" then talk and fade. KFAB, which was + 20/s9 at time, was nulled. Not noted ard 0330 w/WBT off completely. Again, Single-sideband was helpful. (ML)
- 1150 WRUN-NY ET w/ 1k. TT 0208-45+ 12/15 (Boyd)
- 1190 KLIF-TX Finally hrd thru WOWO OC 0430 12/11 w/ slow mx and ID (JMP)
- 1230 WSOK-GA Equal to WBPZ all AM 12/16 w/ MoR ish and jazz stuff. (Boyd)
- 1240 unID Wisconsin on ET w/TT 0210-16 12/15. ID down in mud. Think was WOMET, but not sure. (Boyd)
- 1250 WWNS-GA On ET w/ Big Band mx 0120-0130 12/18 (Boyd)
- CHWO-ON Strong, seemingly alone w/ "Remember Member" contest promo 0552 12/10 (JMP)
- 1260 CFRN-AB Noted o/WEZE-WIXY w/ sx 0142. Superpest local WWDC was off on this good NW opening. (ML)
- 1290 KOIL-NE O/CJBK most of AM 12/18 (Boyd)
- 1300 WAAC-IN W/ ET-TT 12/15 0239-45+ (Boyd)
- 1310 WCAM-NJ Noted @ s/on 0458 12/18 anncg. "1300 kHz.". (Brian Vernon, Toronto, Ont.) \*\* welcome to DDXD, Brian. -RJE
- 1340 CKAR-1 - ON Hrd to 0102 s/off // CKAR per ID 12/18 (Stan Morss, Bradford, Ma.)
- 1400 WMCS-ME Broke thru once 0008 on TEST w/ mentions of NRC, then a jingle 12/16 (JMP)
- 1420 C -PQ Plessisville, has been on since OCTOBER, but I've as yet to hear a call (Morss)
- 1440 WJAB-ME O/everyone w/apparent ET w/ c&w, jx 12/22 0009 (JMP)
- \*\* WHHY-AL Seems AN MM or more likely NSP now w/rr noted 12/18 (Boyd)
- 1460 KDON-CA Stompin' on WBNS 0330-0345+ 12/18 (Boyd)
- 1490 unID Someone here w/ tele-talk, no DF but EST TCs 12/15 (Boyd)

1530 WOBR-NC Finally hrd this one in WCKY semi-null, s/on 0700 12/22 then into Xmas mx, good until WCKY ended nx and started mx (JMP)

1540 KXEL-IA SP: 0148 to 0600 per s/off last 2 weeks. Much ET abt 0400. MMs. (Boyd)

1550 WNTN-MA ET-TT on 12/20 0130-45+ (Boyd) (ML)

1560 KRQB-IA W/good signal on ET w/ID 0335 12/11, no QRM, tho' CM noted.

1580 KTGR-MO In clr w/ET ID 0338 12/11 then SID & rr. Never hrd on SSS due to overmodulated pest WINX-1600 splash. (ML)

WSUP-WY TEST 12/11 not on. (MC)

1600 WCWC-WI Test 12/18 hrd here u/WWRL 'til WWRL off 0210 then in clear w/KATZ u/. Fair sig on nitepattern (MC)

On DX 12/18 poor on day patt., tremendous on nite patt. 0245 w/WWRL off. (Morss)

Vy strong on TEST, no QRM on day patt., nite much weaker & mixing w/KATZ. 0200-0337 s/off 12/18 (JMP)

Fair to good on 12/18 test. All but KATZ seemed off. (Boyd)

KATZ-MO Became extremely strong when switched to day pattern 0310 or so, burying WCWC. Back to nite pattern 0330 (MC)

Apparently running ETs while WCWC on nite pattern 12/18 0245+ strong at times, then drops of 3 s-units in a very systematic fashion. (JMP)

RR way u/KATZ after 0330 w/KATZ also quite wk on nite pattern. (MC) \*\* WETT, WISZ, of the following? -RJE

KLAK-CO Atop channel w/ID 0200 12/18 just prior to WCWC start, quick fade up then lost. (JMP)

WKEN-DE ET 0513-18 w/OC, TT, & 2 IDs o/WGIV and still WWRL off. Also an SS. WLUZ?? (Morss) \*\* Or WKWF.... -RJE

Thassit for this trip, so we'll be back next week. 73, RJE

EMISORAS DEL NUCLEO RADIO MEXICO

SEPH XBOY XE85-D  
590 FCS 1000 ECS 897 MCS

XEQ1 XE07-P4  
640 FCS 300 MCS

XEQ2 XE07-P4  
130 FCS 300 MCS

CONFIRMAMOS SU RECEPCION DE RECIPCION A NUESTRA EMISION

DE FECHA 21 DE 12/21  
HORA 21:22 - 21:31 T.M.C.

MUCHAS GRACIAS

RADIO

Mr. Joseph E. Heath Jr.  
P.O. Box 138  
New Windsor, Maryland, E1776  
U.S.A.

FOR SALE.... FOR SALE..... FOR SALE.... FOR SALE..... FOR SALE.... FOR SALE.....

by Steve Bohac, 97 Shaler Ave., Fairview, N.J. 07022:

- 1) UTC # LML-500 low-pass audio filter, 500 Hz. cutoff, impedance 600 ohms Brand new - \$30.00
- 1) Drake # 20Q speaker / Q-Multiplier \$15.00
- 1) Ameco model PGL-P Nuvisotr preselector for shortwave 1.8-54 MHz. \$20.00
- 1) Millen #10039 Vernier dial w/ 6 tuning ranges, 8:1 tuning ratio. New. \$3.50
- 1) Lafayette transistor mike mixer # PA-292 . New. \$4.00
- 1) Shurite # 8333Z S-meter \$2.50
- 1) Stancor # C-1215 filter choke - 9.0 henries @ 50 ma (new) \$2.50
- 1) Robins "Gibson Girl" Stereo-4 tape splicer (new) \$3.50
- 1) Lafayette tape head de-magnetizer (new) \$2.00
- 1) Quam # 69A3 speaker - 6x9 "; 3.2 ohms. (new) \$4.00
- 1) Hallicrafters S-meter for SX-133 (new) \$5.00
- 3) Hammarlund MC-325 Linear tuning variable capacitors (current list \$13.25) \$9.75 each. ( This is the standard specified tuning cap. for the NRC loop )

by R. J. Edmunds, Box 946, Wayne, N.J. 07470

- 1) Heathkit QF-10 Q-Multiplier for direct connection to rx. Requires power from within rx or extal power source. Assembled & functional - \$15.00
- 1) Ameco converter - converts AM auto radio to cover CB. Hardly used, works well. List when bought - \$29.95. Selling for \$17.50
- 2) 8" Hi-Fi / Stereo speakers w/ enclosures - wood grain. 25 watts each, Jensen spkrs. EACH: \$20.00. Both for \$35.00.
- 1) Longwire antenna tuner - inductance-capacitance dual tuned circuit w/ minibox enclosure - \$5.00
- 1) DuKane 50-watt audio PA system - tube type. 5 mic. inputs w/ controls, 1. phono input, master tone, volume controls. 3-chassis units - mixers/preamps, power amp. and power supply. Inter-connections between chassis pieces must be re-wired, schematic available. When re-wired is in working condition. Worth several hundred dollars. If interested, make offer.

Greetings from the football capital of the world. I hope you will pardon the long absence of DX'tras: EAST, things have gotten entirely out of hand. Chaotic is too mild, not even enough time to DX. The stations listed in formats under Md, Va, WVa, Del, and DC were logged during an excursion down south that I made a few months back. Since almost all the material which I have is not time-dated, I doubt it has lost too much authenticity by the long hold-up here. I hope everyone has had a Happy Holidays, although by the time this reaches print it will probably be time to wish everyone a Happy Valentine's Day. So much for the B.S.

Mike Collins, Stratford, Conn. (MC)  
Pierre Tremblay, Quebec, Que., Canada (PT)

## I. Formats

1/73

540	WETC-NC	cw	(PT)	1260	WWDC-DC	MoR/rr	
	WDMV-Md	MoR			WNRK-Del	rr	
570	WGMS-Md	Cl		1290	WTUX-Del	MoR	
600	WICC-Conn	rr	(MC)		WZUU-Wis	rr(oldies)	(PT)
630	KDWB-Minn	rr	(PT)	1300	WERE-O.	Tk	(PT)
*560	WQTE-Mich	MoR <sup>1</sup>	(PT)	1310	WEEL-Va	rr	
750	WBMD-Md	cw		1320	WEET-Va	cw	
810	WYRE-Md	rr		1340	WRIT-Wis	rr	(PT)
850	WKIX-NC	rr	(PT)		WOCK-DC	rb	
860	WAYE-Md	rr		1350	WORK-Pa	MoR(Big Band)	
900	WLMD-Md	MoR			WFLS-Va	MoR	
910	KISN-Wash	rr	(PT)	1360	WEBB-Md	rb	
	WRNL-Va	MoR		1380	WTVR-Va	rr/Mok	
920	WMNI-O.	cw	(PT)		WAMS-Del	rr	
950	WXGI-Va	cw			WMEE-Ind	rr	(PT)
970	WAMD-Md	cw/rr		1390	WEAM-Va	rr	
980	WRC-DC	MoR		1410	WIKI-Va	Rel	
990	WANT-Va	rb		1430	WIVE-Va	Rel	
1010	WSID-Md	Rel		1440	CFGO-Ont	rr	(PT)
1130	WEEO-Pa	rr		1450	WLYV-Ind	rr	(PT)
1140	WRVA-Va	MoR			WENZ-Va	MoR <sup>2</sup>	
1230	WWCO-Conn	rr	(PT)	1460	WCMB-Pa	MoR	
	WCOL-O.	rr	(PT)		WFRW-Va	rr	
	WITH-Md	MoR		1470	CFOX-Que	cw	(PT)
1250	KTW-Wash	Tk	(PT)	1480	WLEE-Va	rr	
1510	WAHT-Pa	rr		1590	WGOE-Va	rr	
1540	WRGM-Va	J					
1580	WHEX-Pa	MoR					
1590	WQQW-Conn	MoR	(MC)				

<sup>1</sup>: Easy Listening <sup>2</sup>: Ai Network

Abbreviations: rr-Rock, MoR-Middle-of-the-Road, cw-Country(western)  
Tk-Talk, Rel-Religious, Cl-Classical, rb-Rhythm & Blues, J-Jazz

## II. Acronyms

550	WDEV-Vt.	Radio Vermont	(MC)
580	CFRA-Ont	Radio Fifty Eight	(PT)
590	WARM-Pa	Warm	(MC)
600	WICC-Conn	Service Six	(MC)
690	WADS-Conn	Voice of the Valley	(MC)
750	WBMD-Md	Music Country	

770	WABC-NY	Music Radio Seventy Seven	(MC)
800	CKLW-Ont	The Big Eight	(MC)
810	WYRE-Md	Rock on the Bay	
840	WRYM-Conn	Rhyme Radio	(MC)
910	KISN-Wash	The Rock of the North-West	(PT)
	WRCH-Conn	Rich	(MC)
940	WINE-Conn	Wine Radio	(MC)
950	WBBF-NY	The Rock of Rochester	(PT)
1130	WEEO-Pa	"Whee-Oh"	
1240	WGBB-NY	Radio Long Island	(MC)
	WWCO-Conn	"C-O"	(MC)
1260	WWDC-DC	"12-6-Oh, Stereo 1-Oh-1"	
1290	WCCC-Conn	Triple C, All request	(MC)
1300	WAVZ-Conn	Waves	(MC)
1310	WEEL-Va	"Wheel" Radio	
1320	WEET-Va	"Wheat" Radio	
1340	WOCK-DC	The Black Giant	
1350	WNLK-Conn	Radio Norwalk	(MC)
	WORK-Pa	"Work"	
1380	WMEE-Ind	"W-Me"	(PT)
	WOWW-Conn	Red Carpet Radio	(MC)
	WAMS-Del	"Whams"	
1390	WEAM-Va	"Wheem"	
1400	CJFP-Que	CJFPop (??-Ed.)	(PT)
	WSTC-Conn	Your Stamford Station	(MC)
1450	WLYV-Ind	The Rock of Fort Wayne	(PT)
	WNAB-Conn	Sound of the City	(MC)
1460	WAXC-NY	"Whack-Sea"	(PT)
	WPRW-Va	Power Radio	
1480	WKND-Conn	Candy Radio	(MC)
	WLEE-Va	Lee	
1490	WGCH-Conn	Gateway Radio	(MC)
1510	WRAN-NJ	Radio New Jersey	(MC)
1570	WHRF-NY	"Wharf"	(MC)
1580	WSRF-Fla	"Surf"	(MC)
	WHEX-Pa	Hex Country	
1600	WTYM-Mass	"Time"	(MC)
	WWRL-NY	"RI", The Big Sixteen	(MC)
	WLNG-NY	Radio East Long Island	(MC)

SUPPORT DX NEWS,  
CONTRIBUTE!

## III. Mike Collins sent along the following Call letter etymologies:

540	WDMV-Md	Delmarva peninsula (Del, Md, Va)
600	WICC-Conn	Industrial Capital of Conn. (Bridgeport's nickname)
610	WIOD-Fla	Wonderful Isle of Dreams
650	WSM-Tenn	State Mutual Insurance
690	WADS-Conn	Ansonia-Derby-Shelton
720	WGN-Ill	World's Greatest Newspaper (Owner: Chicago Tribune)
890	WLS-Ill	World's Largest Store (Former Owner: Sears)
990	WIBG-Pa	I Believe in God (Formerly church owned)
1000	WCFL-Ill	Chicago Federation of Labor
1010	WINS-NY	International News Svc. (formerly owned by owners of INS, a now defunct wire service)
		Travelers Insurance Co.
1080	WTIC-Conn	W.K. Henderson-founder of the station
1130	KWKH-La	Voice of Oklahoma
1170	KVOO-Okla	Pasadena Presbyterian Church (former owner)
1240	KPFC-Cal	Eugene V. Debs
1330	WEVD-NY	Doolittle Radio Co. (Original owner)
1360	WDRC-Conn	

That's all this  
time. 735.  
EDR

# FLUSH TWICE, FRIEND.

Oh well, looks like the typographer screwed up again. What we really meant to say is that the NRC's great Flash Alert Service is in its second great year. What is Flash Alert, you may ask? Well, friends, you can believe me when I tell you that it's a great help to the DX TEST listener. Why, it's become an American standard since its inception. Here's how it works: if a DX TEST is scheduled too late for information about it to reach DX NEWS readers, the person who arranged the test calls our trusty Flash Alert Man, Carl "Flash" Junker, who resides in that little known but widely heralded town of Kettering, suburb of Dayton, Ohio (the club decided that Carl would be the best man to run Flash Alert because of his nickname). When Carl receives the info, with the speed of a fast approaching auroral disturbance he then sends out postcards (stamped, self addressed ones which he receives from members like you) on which are written the vital test info, and sometimes, when Carl's in the mood, 6 or 7 characters of the Japanese alphabet. So now, you may be asking yourself, how do I get in on this great service? Well, bunko, it's easy. To receive info, just send 9 or 10 stamped self addressed postcards to Carl "Flash" Junker, NRC Flash Alert, 1920 Malcom Drive, Kettering, Ohio 45429. And if, per chance you have any late DX TEST info, call Carl at 513-254-9936. But do it quickly, because...

IT'S A LONG WAY TO  
**DAYTON**

## Selectivity Devices

AND HOW TO USE THEM

Ronald F. Schatz

Selectivity - without it your receiver would pick up every station on the band at the same time, and that wouldn't be nice. When we speak of selectivity we mean a receiver's capacity to pick up only the station you want to hear - and no others. Toward this end both standard and special circuits are employed in receivers.

One may not think of it in such a manner, but the basic selectivity device found in all receivers is the RESONANT CIRCUIT, and without it radio as we know it today would be an impossibility. The resonant circuit is nothing more than a coil and a capacitor connected together. When connected in series (Figure 1) only one particular frequency can pass through them; when connected in parallel (Figure 2) only one frequency cannot get through the circuit - just the opposite effect. Here is how it works:



Figure 1

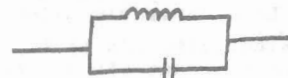


Figure 2

Most readers know that the purpose of that colour-banded device known as a RESISTOR is to impede the flow of current through it; the higher the resistance, the more "open" the circuit is. Coils and capacitors have a similar effect on current flow - as follows:

A COIL is so constructed in order to concentrate a magnetic field in its area. This magnetic field is slow to change, so that it permits DC to pass through the coil with no problems but not AC, since the latter changes so many times per second. The higher the frequency of the current, the more "resistance" the coil offers to it. This type of "resistance" in coils is called INDUCTIVE REACTANCE. Like resistance, it is measured in OHMS (symbol =  $j\Omega$ ).

A CAPACITOR consists of two metal plates insulated from each other but still close enough together to permit the existence of a strong electrostatic charge between them. In this case it is the DC that can't pass through the capacitor, while AC can. The higher the AC frequency, the easier time it has crossing the electrostatic field. This property is called CAPACITIVE REACTANCE, also measured in OHMS (symbol =  $-j\Omega$ ).

As can be determined by their respective symbols, inductive reactance and capacitive reactance are similar but opposite in nature. In a circuit, one value subtracts from the other, so that if both reactances happen to be equal (and opposite), the result is no reactance at all. In the case of Figure 1 above, the only frequency that can pass through the circuit is the one for which the reactances of both the coil and the capacitor are equal, and we say the circuit is "resonant" at that particular frequency.

Frequencies very close to the particular frequency of a resonant circuit also pass through, since the reactance, though present, is



very low. The further removed the "off" frequency is from the resonant frequency of the circuit, the more reactance it faces. A RESONANCE CURVE is a graphic illustration of what frequencies pass through a given resonant circuit and how well they do so (Figure 3).

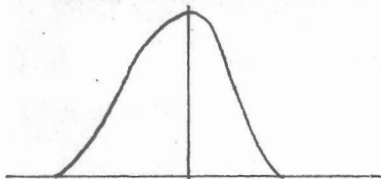


Figure 3

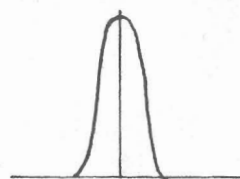


Figure 4

It is now obvious to many readers that the quality of a resonant circuit is to be judged by its ability to reject those "off" frequencies and their unwanted signals, so that a curve like that shown in Figure 4 is preferable to the one in Figure 3. This "quality" is recognised in electronics, where it is abbreviated "Q". Correct - Q as in "Q-Multiplier"!

Low selectivity in a resonant circuit is due to the presence of RESISTANCE, which dampens the circuit's ability to resonate, or "ring", at the resonant frequency. Q then becomes the ratio of reactance over resistance present in a circuit ( $Q = X/R$ ), so that high Q turns out to be a desirable thing.

Selectivity can be improved by passing a signal through more than one resonant circuit or by sending it through the same circuit again. Receivers of earlier days were limited by component size in the amount of resonant circuits they could contain, so their selectivity left much to be desired (E.g., a super-local taking up much of the band). The "regenerative" receiver tried to overcome the problem by returning the signal for a "recycling job" through the same circuits again. Today smaller and better-quality components give high values of selectivity to the cheapest receivers, so that manufacturers now must avoid designs that are too selective for general use.

Too selective? Yes, since the sidebands that carry a signal's voice and music are, themselves, "off" frequencies. The higher the pitch of the modulating sound, the further removed are the sidebands from the resonant (carrier) frequency, so that too much selectivity will cut out the higher frequencies, leaving audio that sounds muffled and bassy. Perfect selectivity would permit only the carrier to come through the receiver and none of the audio - and no ID for logging and copying the station.

So the dilemma is one of the soldier throwing a grenade; if it lands to close he too will get the shrapnel. A compromise is to be found that will eliminate as much of the interfering signal as possible without hurting the intelligibility of the desired signal. The rule to follow is this:

USE NO MORE SELECTIVITY THAN IS NECESSARY FOR CLEAR AND PLEASANT COPY OF A SIGNAL.

Many inexperienced DX'ers habitually keep their crystal filters on position 4 and their Q-Multipliers near the point of oscillation at all times, deeply affected by the charisma of selectivity, they

almost ignore the fact that they can't make out the audio they need for logging the signals they receive.

Now we are ready to discuss selectivity devices other than simple resonant circuits. These devices can be divided into two major classifications: The first group eliminates all signals except the desired one and its audio. Included here are the Q-Multiplier (peaking type), crystal filter, mechanical filter, and ceramic filter.

The second group of selectivity devices pass everything except the one interfering signal it is desired to eliminate. These are the nulling Q-Multiplier and the various notch filters employing differential circuits. These devices have the advantage of better audio quality than those in group one, but they are often helpless when there is more than one interfering signal present.

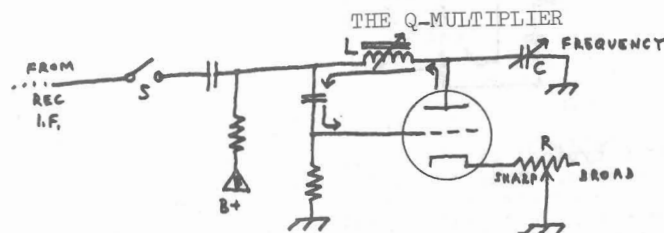


Figure 5

The Q-Multiplier is little more than a glorified resonant circuit. It is a parallel circuit that grounds everything in the normal signal path of the receiver except for that part which falls in its particular resonance curve, the latter being permitted to reach the speaker. The Q of the circuit can be controlled over a wide range to determine just how much of the band is to be diverted away from the latter stages of the receiver and short-circuited to ground.

In Figure 5 the resonant circuit consists of the coil (L) and the combined effect of all the capacitors in the circuit (this includes the interelectrode capacitance in the vacuum tube). The variable capacitor (C) permits shifting the frequency several kHz on either side of a center frequency - the IF of the receiver. C is a front-panel control, generally marked "frequency"; L can also be varied, but is left alone except during receiver alignment. The potentiometer marked "R" is also a front-panel control, usually labeled "selectivity (sharp-broad)". A DP switch (S) is always present in some form for the purpose of turning the Q-Multiplier on or off.

The arrows show the feedback (recycling) path in the circuit. This regeneration is responsible for the very high Q that makes the device useful to the DX'er. R controls the electron flow in the tube, and that literally controls the amount of damping resistance present between the electrodes of the tube and, therefore, in the resonant circuit of which it is a part. Too little resistance, however, will permit the feedback to sustain itself and convert the Q-Multiplier into a poor-quality BFO. This is what happens when the selectivity control is turned too high - a "strong open carrier" appears on the scene. Strong signals from the IF strip entering the Q-Multiplier can also cause it to break into oscillation if the selectivity control is set near the critical point.

In summary, the Q-Multiplier functions by removing everything

from the receiver except for what falls within the resonance curve of the device. Its high Q is the result of regenerative feedback.

Most DX'ers like to leave the Q-Multiplier frequency control in mid position at all times, but better audio for a given amount of selectivity often results by tuning that control off to the side opposite to that of the interfering signal.

#### THE CRYSTAL FILTER

A crystal is a high-Q resonant circuit combined into a small piece of quartz rock. So high is the Q of this rock that crystal-filter circuits must be provided with resistors to dampen its effects.

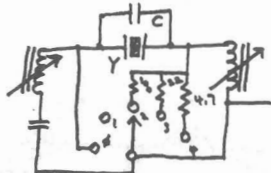


Figure 6

Figure 6 is a typical crystal-filter circuit, such as found in many Collins receivers. This one has 5 positions, marked 0, 1, 2, 3, and 4. Position 0 bypasses the filter completely, thus eliminating the crystal from the signal path. Position 1 has infinite resistance (no connexion) giving the widest possible selectivity with the crystal. Positions 2, 3, and 4 have resistors of  $100k\Omega$ ,  $22k\Omega$ , and  $4.7k\Omega$  each respectively, and respectively sharper selectivity down the line. A short circuit across the resistance path would result in the sharpest selectivity, but it would be much too sharp to have practical use.

The purpose of capacitor "C" in Figure 6 is to neutralise the capacitance of the crystal holder (Y). It is called a "phasing capacitor".

Better crystal filters employ two or more crystals differing slightly in resonance frequency to give a combined resonance curve (bandpass) with a flat top and steep sides. Today this arrangement has largely been replaced by mechanical filters.

#### THE MECHANICAL FILTER

This is not a circuit but a component. A typical mechanical filter consists of, say, 7 cylindrical discs tightly suspended between two TRANSDUCERS (devices which convert electrical energy to mechanical energy and vice versa). Each metal disc resonates at an ultrasonic frequency near that of the receiver IF in a manner that all the discs cover the desired bandpass. For example: If we desire a 7-element filter to have a bandpass 2.1 kHz wide centered on 455 kHz, we would want seven discs to resonate respectively on the frequencies of 454.1, 454.4, 454.7, 455.0, 455.3, 455.6, and 455.9 kHz. As each disc has a very high Q the resulting "curve" would approach the rectangular shape that offers the best possible selectivity/intelligibility ratio. This is how a mechanical filter can offer excellent selectivity without "muffling" the audio.

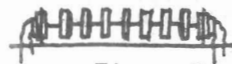


Figure 7

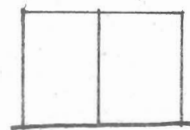


Figure 8

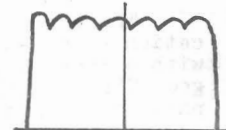


Figure 9

Figure 7 is a sketch of a mechanical filter with its cover removed. Figure 8 is the ideal hi-Q bandpass. Figure 9 is the bandpass of a 7-element mechanical filter; note how it approaches the ideal bandpass in shape.

The shape of the mechanical filter output can be improved by placing several in series, although their high cost tends to discourage this practice.

When one tunes a receiver equipped with mechanical filters stations do not fade up to a peak then fade out, rather they appear sharply, remain steady as one tunes, then suddenly disappear off the opposite end. This "sharp edge" can be used to advantage (as illustrated in Figure 10) by placing the carrier of the desired signal just within it - so that the interfering signal falls on the "wrong side". For all practical purposes this tantamount to single-sideband reception!



Figure 10

Comprehensive literature on mechanical filters is available from the National Radio Club in the form of reprints.

#### THE CERAMIC FILTER

This is a little red component measuring a centimeter square and costing about 47¢US each. It uses a small piece of china as a resonating element. As china has less Q than metal this device has a rather wide, "unselective" resonance curve.

Ceramic filters are not supposed to be sharply selective items; they are meant chiefly to replace IF transformers in solid-state receivers with the advantages of lower cost and simpler alignment. So if you read about ceramic filters in a receiver advertisement, don't jump for joy.

#### NOTCH FILTERS

These devices take a "slice" out of the bandpass in order to remove an interfering signal, heterodyne, etc. Figure 11 illustrates a notch falling in a typical bandpass. When not in use the notch is "stored" outside the bandpass rather than turned off. In some receivers, such as Hammarlund's, the notch is known as a "slot".



Figure 11

There are two common methods of forming the notch. A modification to a Q-Multiplier can give a receiver a "negative" passband, with a sharp hole in place of the usual sharp, selective peak. Bridged "T"s and other balanced passive circuits create the notch through phase comparison and cancellation.

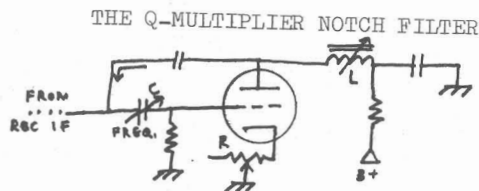


Figure 12

The circuit in Figure 12 resembles the one in Figure 5, but this time the resonant circuit is series rather than parallel. Where the normal Q-Multiplier takes everything else but a sharp peak from the receiver, this one does just the opposite - stealing the peak and leaving the rest. Potentiometer "R" now becomes a "notch depth" control, which is adjusted to give the strongest possible null on a signal - usually a superlocal - then is left alone. The job of capacitor "C" is to move the null around the passband, placing it over any interfering carrier. When the null is not needed this "notch frequency" control is turned to its far side, "storing" the notch on the side of the bandpass until it is needed again.

#### PHASE-DIFFERENTIAL NOTCH FILTERS

These devices form the notch by varying the differing phases of two otherwise identical signals so that they "destroy" each other at a given frequency in the passband. There are many possible circuit combinations that can accomplish this; the one illustrated is from one of the Collins receivers.

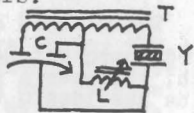


Figure 13

Perhaps an explanation of the term "phase" is in order: Picture two pendulums side by side. If both pendulums swing from the left, to the right, to the left together - in unison - then they are said to be "in phase". If one swings to the left while the other swings to the right, then they are said to be "out of phase". Two or more AC signals can be compared in this manner: Two signals that are "in phase" will reinforce each other; two that are "180° out of phase" will subtract, possibly cancelling each other out. A "phase shift" occurs in the presence of reactance; in a pure reactance this shift is 90°, but resistance reduces the amount of the shift to any value between 0° and 90°. The direction of the phase shift depends upon whether the reactance is inductive or capacitive.

Capacitor "C" in Figure 13 possesses one rotor (the moving part) and two stators; it is called a "differential capacitor". This capacitor receives two signals off of transformer "T"; they are equal in strength, of the same IF frequency, but are 90° out of phase. The

capacitor and the lower half of T form one side of a balanced circuit, with crystal "Y" and its adjacent circuitry forming the other.

Before we go on, we must mention that a crystal in its holder possesses two resonant frequencies, there being a series resonant frequency slightly higher than a parallel frequency. The crystal holder in itself is a capacitor, thus it possesses reactance and everything that goes with it. Furthermore, either crystal frequency is variable within close limits, so that one may be shifted relative to the other.

A notch filter of this particular design is invariably an integral part of a crystal filter. In the case of Figure 13 the sharp notch is moved around the bandpass by varying the crystal's parallel resonant frequency and phase by rotating capacitor C. This is the "phasing" control found on many better receivers.

This type of notch filter, often termed the "T" notch for the shape of its circuitry, actually has two notches, one on each side of the center frequency. When not in use the phasing control is kept at center position, which stores the two notches at the far ends of the bandpass. Rotating the control either to the right or to the left moves one of the respective notches toward the center - to be placed over the interfering signal.

Most DX'ers prefer the T-notch filter to the Q-Multiplier notch filter for its simplicity, stability, and ease of use.

Notch filters are extremely useful devices, especially for DX'ers working "splits". Not only will the notch remove an unwanted heterodyne but, by removing the carrier of an interfering station, it will render the audio from that station unintelligible. It also has an indirect tendency to exalt the carrier of the wanted station, giving dominance to a normally relatively weak signal lost in the shadows of powerful sideband splash. Unfortunately the notch can only act on one frequency at a time, so it may not help much if there is more than one interfering signal present.

There are other selectivity devices available to the DX'er, but the more common ones were mentioned in this article. Learn to use the device in your receiver - correctly. Above all, don't overuse it!

-30-

RICHARD NOEL ALLEN - Billings, Oklahoma - 74630

First, I must apologize to ERC for using the 24-hour system instead of AM & PM in my last mailing. XELC is now XERCK, "the world's most powerful rock station", with an AN rr format. DX continues to be good here. The following DX was heard on a Pioneer SX-300T RX w/a 2' altazimuth: 12/5- XEMC-860 heard @ 4am w/EE & gospel mx. CBF-690 w/FF NX, WX & sports @ 6:02am w/XETRA/KDS. CBR-1010 @ 8am s/om CBC NX & WX, o/XEHL. 12/8- CJBC-860 w/FF talk u/KOAM @ 11:10pm. 12/10- CBX-740 @ 3am s/off w/Ch Canada & GSQ u/KCBS. CFRN-1260 w/rr @ 3:19am w/un-ID QRM. HJAI-1040, R. Tripical, w/SS & IA mx @ 4:44am o/UMKG. KKYW-680, ex-KBAT, had w/c/w @ 5:45am w/weak sigml. 12/11- CEA-1070 @ 5am s/on w/Ch Canada, NX/WX, u/KIX. WISO-1070 @ 5:30am w/IRCA Special o/u KIX. The latter two received & recorded while I was asleep, thanks to a recently acquired timer switch. I was trying for CEA & was surprised to catch them, & WISO had a bonus. Only verie was a v/1 from CE of CKOC. I usually verify only Canadians & occasionally report others. Totals: 332 stations, seven provinces, 34 states, 15 countries. I will s/off for now. 73s in 1973.

LET'S HEAR FROM LOTS MORE OF YOU GUYS WHO ARE DXING - MUSE US YOUR DX DOINGS! -ERC



32  
BILL FEIDT - 8708 Contee Road - Apt. 14 - Laurel, Maryland - 20810

The season has been kinda crummy here so far, with the exception of a couple of good Auroral openings & SSS TA openings. Anyway, catching up, DX is as follows: 11/10- WHOS-800 Ala. 5:32-5:44pm w/Ae NX & local NX; many items for Decatur-Huntsville area; CJLW/PJB got the better of them before s/off, so no tape. 11/14- Lisbon-755 5:10-5:180m cracking right through the TV radiation w/FF program. 11/16- WCRL-1470 Ala. 5:43-5:45pm way atop w/NX & s/off; promo for WKLD-97.7; WPTX-1570 at same time much weaker, & only WCNA left after these two were gone. 11/19- WJLE-1480 Tenn. 5:31pm o/u QRM s/off-SSB. WJGM-1560 Tenn. 5:45 only fair u/WQXR w/s/off, no anthem. 11/21- WRCH-910 Conn. 5:30-5:35pm surprisingly atop w/WX & ID, "this is RICH, serving the Greater Hartford Area." 11/22- WQMA-1520 Miss. 5:55-6:01pm w/state NX w/very long pauses between items; call mentioned at 6:01 & then killed b KOMA, WKBW missing, thanks, Aurora. 11/28- WBHT-1350 5:12-5:15pm w/end of MoR & s/off, no anthem. 12/9 found me in Hampton, Va. visiting a friend, & noting an astounding SSS TA opening on his HQ-180 and longwire. Strong signals just about everywhere, but perhaps most notable, Vatican-1529 from 4:45pm at excellent level. This one never heard here, & still not heard here - I wish I'd been home, because I sure would have liked to log that one! 12/13- YVMN-1210 Coro 5:50-5:55pm cutting through WCAU w/"R. Coro" IS & into mx, very Auroral PM. 12/15- WKRK-1320 N.C. 5:15-5:28pm mostly u/mess, but good @ 5:20 w/Murphy Drug Store spot & into the "WKRK Community Bulletin Board." WLCK-1250 Ky. 5:30pm very weak w/s/off. 12/16- WYMB-1410 S.C. 5:14pm s/off by gal GM; fair level. WHLN-1410 Ky. 5:15 weak w/s/off until WPCO s/off started. WPCO-1410 S.C. 5:15 apparently coming off OC w/very strong s/off. WUNI-1410 Ala. 5:29-5:31 w/NX/WX for Mobile & promo for WUNI NX-tip line. WBYE-1370 Ala. 5:44 s/off-SSB. WWSA-1380 Ala. w/s/off at fair level, uses SSB. Aurora brought veritable pipeline into Alabama on this SSS. The morning of 12/17 brought tapes on old WINZ & YVNN-940, the latter w/complete s/on ID; also HJKC-850 @ 5:25-5:36am w/Caracol network program. 73.

MORRIS SORENSEN - God's Narrows, Manitoba - Rob Om0

DX has been good here since the arrival of my HQ-150 - a far better RX than anything I've ever used in the past. 11/14- R. Belize-834 @ 8:56pm. 11/15- WHBF-1270 Ill. @ 9:08pm; XERPM-660 Mexico City @ 11:53pm. 11/17- KVBR-1340 Minn. 1:02am s/off. 11/18- WWNE-1100 O. (ex-WKYC) for the record @ 11:58pm. 11/25 - KIMO-1060 Colo. @ 6:45pm s/off - too late for details; KKJO-1550 Mo. @ 6:51pm w/ no trace of usual CBE. KCHY-1530 Wyo. battling WKCY @ 7. 12/2- KVGB-1590 Kans. w/usual WAKR @ 12:35am; CMHQ-630 surprisingly o/super-pest CKRC @ 12:37am. 12/8- YSS El Salvador @ 8:59pm w/R. Nacional ID; YNX-750 "La Equis" Nicaragua highly o/WSB @ 9:26pm, CKAC-730 Que. briefly atop 730 mess @ 9:34pm. Verifications received CFEN-1060 Alta., KTOE-1420 Minn., WEBC-560 Minn., KLLZ-1380 Minn., CJRN-710 Ont. & CJBK-1290 Ont. (ex-CJOE). I would appreciate help in locating a manual for the HQ-150 as some of the controls are unfamiliar to me. I sent a letter of inquiry to Hammarlund but they returned it with "not available" scribbled in pencil at the bottom. Temperature here yesterday (12/7) was 29° below, so I guess Winter is here, hi. 73. (Late Autumn is here, and Winter drawers on! -ERC)

DAVID KABLE - 29247 Waldensia - Wickliffe, Ohio - 44092

Renewal time for me is coming up at the end of January, and I have some "gripes." I never got a New Member Kit, nor did I get my \$3 back from the orders of the 1971 NRC Domestic Log. Can I put this \$3 toward my renewal? And I still would like a New Member Kit. Do you think that Captain Glotz got my money & N.M.K.? Let's have some action on this - please! Other than that, I am very glad I joined the NRC. It's really been great receiving the DX NEWS through the year! Today I changed my 75' wire antenna that went N/S to NE/SE, at a 45° angle, going down a ravine! Reception changed very slightly. I guess that soon I will be constructing some type of Beverage antenna. It probably will have to probably go into the ravine also! And, possibly I might use a two mile long, 24 year old golf course fence! I wonder how that will work! All for now - 73s, and this year, Christmas Eve and New Year's Eve are both Sunday nights, so two MMs to DX! 73.

Refund has been applied to your dues, Dave, and we're working on NMK's now; see P. 2. Most NMK material - COF List, EBU List, Reprint List, etc., has already appeared in DXN during the year. HQ

RICK EVANS - Box 2048 - Cary, Indiana - 46409

33  
Hello ERC & everyone else. I haven't Mused in over a year simply because there's been nothing to report. Recently, I moved, and am starting to get back into the swing of things. 11/20- WCHL-1360 N.C. 4:30am on TEST w/rr, fair, w/KRYS QRM. 12/4- WSPR-;270 Mass. on TEST 3:04-3:20am, poor, w/TT mixing with KFJZ. 12/10- WERL-950 Wis. s/off 5:16pm poor, just seconds after local WGRY went off; KEHG-1480 Minn. s/off @ 5:30pm; WSEM-1500 Ga. 5:40pm w/religious program, no sign of usual KSTP; KFUP-850 Mo. for ten minutes of NX I&C 6:02-6:12pm, faking me out as they sounded like a local. 12/11- WINA-1420 N.Y. on TEST 1:33-2am off, very weak u/dominant WHK, but definitely there as they peaked for the 2am ID & s/off. WFBR-1300 Md. noted AN & very dominant w/2:10am NX; WACO-1460 Tex. on AN for bad WX & travelers' warnings - 46° & freezing rain predicted (our forecast on 12/5 was freezing rain, fog, severe thunderstorms, plus 2-4" of snow in NW suburbs. Wonder if they'll trade places, hi). WMWM-1090 O. good on TEST 3:01-3:24am. I shoulda known they'd play some good c/w w/old Ernie arranging the TEST. (OLD Ernie?? -ERC) Thanks a million! (Ha, Rick - I asked 'em for band mx & TTs! -ERC) A question for the Admiral: It's well known that a mobile home is murder for DX but how about aluminum siding on a house, since mobile homes are made out of aluminum? When I lived in Cary before, several years ago, I had no line noise to speak of. In East Chicago for two years with aluminum siding, I had a horrible problem. Now, back in a basement pad, just five blocks from where I was, no problems so far. Now I'm wondering! \* Phone is 981-3232. I hope Edward Fox calls. I work evenings, live in Glen Park. v/f- WCHL WINN (for 6/1/70 report, received 11/30/72, day after I moved in here; good omen for the future?) 73.

MIKE COLLINS - 2021 Main Street - Stratford, Connecticut - 06497

WLDB-1490 Atlantic City has been ordered off the air on 12/29. The station lost its license for failing to notify the FCC about the death of its owner Leroy Bremer last year, which constitutes a change in ownership. Ironically, Mr. Bremer got the license for the station in 1955, after he filed against the Atlantic City Press, owner of WBAB-1490 Atlantic City, which was sold (the paper, that is) & they forgot to file the proper application with the FCC because the ownership of the station thereby changed also. WLDB always had a fantastic signal on the Conn./R.I. & L.I. shorelines, stronger than any other station there (WMID-1340, WFFG-1450 & WOND-1400). The station was operated by Leroy Bremer at his house and his wife was the sales manager. The calls stand for Leroy and Dorothy Bremer. WICC-600 is seeking permission from the City of Bridgeport to dig up its grounding system and install an entirely new one. The present system was installed in 1932 & there has been much corrosion & deterioration. The new ground system should greatly improve WICC's signal. The job is expected to take at least ten days, and if permission is granted, it'll be done in March or April. It is hoped the work will produce many day & nighttime silent periods for WICC. Meanwhile, the most likely time for SPs is SMS 3-6am, especially 4-5am. (They'll need FCC approval for a new ground system too, no? -ERC) A new station was heard MM 12/11 the long-sought CBK-540, Regina, wanted for years, was coming in unbelievably loud: w/an ID for CBW-FM Winnipeg @ lam, CBC NX, then a correct ID @ 1:05, a jazz program, & s/off @ 2. That same morning the WMWM-1090 Wilmington, O. TEST was heard w/a fairly good signal w/c/w & many IDs. The TEST from WSUF-1580 Patchogue, N.Y. did not run, in case anyone is interested. Also heard on MM 12/11 was KOA-8050 Denver, with a very strong signal @ 2am w/Billy Graham and an ID. On SSS, Saint Lucia on 840 was heard w/an EE preacher 4:45-5pm, on 12/11. At first I thought it might be WMOB-840 Mobile, which has never been heard here, but should not be a very difficult one to catch. The next night (12/12) an ID was heard for WSC-990 AM & FM, Somerset, Pa. right after WIBG Philadelphia cut power @ 4:30am. 73 & Happy '73

No surprise, Rick. Large areas of conductor near loops are generally very bad news; pickup is greatly reduced (thus making the local noise level introduced by the AC power lines appear higher than usual) and the nulling ability of the loop can suffer greatly. Aluminum siding is bad, also aluminium-foil coated insulation. Power and phone lines can also interfere with proper loop operation; I once saw one case where two separate phone lines on opposite walls of the room had the effect of causing all stations to null in the same direction on the loop. (GPN)

ROGER GIANNINI - 1111 Forest Hills Drive - Belleville, Illinois - 62221  
 12/19, PM. 1586, 1554 fair, 5:50pm. 1538 fair w/no KXEL slop.  
 1394 good in SS. Armchair between 6 & 11 w/some fades were 845 1214 1554 1586.  
 1214 Tiram good in Arabic 10:30 & 11:30. 1205 good 11:35. 1043 fair @ 11:37.  
 B.R. 1602 het noted against local KATZ-1600, 11:50. 1376 fair w/slop from local  
 KWK-1380 11:55. 12/10 AM- I am noting 1484 het but nothing audible @ 12:06. 1574  
 & 1586 still hanging in there at good level. 1196 fair w/NX plus Agadir het, 1:03.  
 Andorra-818 split off at fair level from WBAP. Algeria-533 noted @ 1:30 w/chants  
 ending & male announcer. Signal strength indicates beam towards Libya and weak  
 for 600kw power. Moderate KSD-550 slop at times. My second Algerian and fifth  
 African. 683 strong 1:40. 818 somewhat better w/FF announcements. 12/10 PM- TA  
 hets starting to appear @ 5:30: 1034 1043 1061 1205 1214 1586. 1196 het strong @  
 5:37. 1394 barely audible. What language is used at 5:30-6pm period? CSB2-782  
 het fair 5:45. 1052, Radio Four, weak w/man-woman tal 5:47. 683 fair 6:01. A  
 real catch at 6:35 on 872, AFN, the one w/audio but not sure if its EE. Het easily  
 separable from WWL which was giving a sports report at the time. 12/11 AM- Sottens  
 -764 fair w/mx @ 12:20. 1214 Tirana is giving Radio One fits but this I mean that  
 on this particular day I can still hear Tirana past midnight when R. One is gener-  
 ally strong but not tonight. RNE-773 L&C w/vocal mx & guitar 12:42. 1043 poor at  
 1:04. 12/11 PM- the height finally reached of the current opening. 1586 good at  
 5:45 w/symphony mx & moderate WALK-1590 slop. 1554 fair w/man talking @ 5:50,  
 slight WDXR-1560 slop. UnID-1546 5:51. 1502 Warsaw what sounds like its EE Ser-  
 vice @ 5:53 poor but easy separation on 1500. I checked it out to find a real sur-  
 prise in WTOP w/non-stop NX, ID @ 5:54. Never heard this early before! 1394 good  
 6 03, 1376 also in @ 6 05 w/moderate KWK slop. 1178 het @ 6:15 & I presume this  
 will be RNE. 1088 Radio Four w/severe KAAV slop 6:38. 845, 854, at 6:43, fair.  
 I have to wait until local KFUC-850 s/off. I had better but abruptly come to an  
 end as I am at 30 but Merry Christmas and 73 in 1973.

KEITH BIRLINGMAIR - Route 1 - Box 44P - Rockton, Illinois - 61072

Greetings, all. Long time no use. DX here has been terrible,  
 due to lack of energy. Only DXing since I last graced (sic) these pages was Dec.  
 11, 16, & 17. That will follow. Attention: For those of you who have heard WINN-  
 1240 Louisville, they have finally decided to verify. They sent my form letter  
 last week, & a couple of IRCA members have received theirs also. Mine took over a  
 year. HQ, where is my thousand feet of wire? It was ordered in August, I believe.\*  
 I am now using the Knight R-195, even though it won't go below 590k. The S-meter  
 does not work, and neither do the code and SSB functions. Sometime I'll get a-  
 round to tracing it down. Down (or up?) to DX: 12/110 KTCX-1000 OK, o/u R. Mil @  
 3am. 12/17- KV00-1170 OK poor, (??? -ERC) (OK, or poor?) o/u KSTT/WWVA w/c/w @  
 12:44am. WLCS-910 Ia. poor w/MOR @ 3:18. 12/16- Much-wanted WVOJ-1320 Fla. final-  
 ly heard @ 4:05am w/c/w & WX, very severe QRM from WJAS, Pittsburgh. This station  
 was first heard on car RX, in 10/70, while at old Beloit address. That's all for  
 now. See IDXD for some LA stations heard. 73s & good DX.

PHIL O. SYBEN - 1231 Bronson Street - Los Angeles, California - 90005

Reception has been great lately. I received AFNS-790 Canal Zone &  
 KRIV Honduras which completes Central America. Jumping Jay Murley dropped over for  
 a super evening of DX. We heard something on 1214, maybe China, with EE foreign  
 service w/British accent, JOUB w/EE language lessons. Got some veries: KABF KPAS  
 KBBQ KPFK. Read Dick Wood's latest article in the '73 Handbook. That's all for  
 now, so 73s & 88s.

\* Yours and at least one other box of wire appears to have been lost by the P. O. -  
 either that or it's being routed via Patagonia... We've sent you a replacement  
 package via insured Parcel Post and you will be receiving it shortly (we hope).  
 Expect to hear from the P. O.; we've put a trace on the missing packages. How  
 do you lose 24 pounds of wire? HQ

CURTIS D. ENGBERG - 80 Concord Road - Wayland, Massachusetts - 01778  
 Although no great amount of listening has been done, the last  
 six weeks have produced ten new loggings here plus a few old goodies. 10/30- WTWB-  
 1570 pulled in on TEST @ 12:05am. 11/5- WMVI-1170 s/off caught @ 4:30pm. WQWV-  
 1380 noted over SS pest WENX. At 5:30 WRIZ-1550 s/off noted, unnn. At 6pm HJDT-  
 1170 dominant & R. Landia-1160 really booming in. Since the S appeared good, I  
 shorted to the lower parts of the dials to see if I could pick up some relatively  
 easy ones (for others) that I'd missed before. ZIZ-555 separated from the adjacent  
 channels enough to get clear ID @ 6:50pm. Also long-wanted PJA6-925 finally  
 logged clearly @ 7pm. Also @ 12:30am 11/6 HJFV-1040 R. Tropical ID. New WGTR-1060  
 local logged @ 4pm on 11/19. At 5pm WBTZ-1470 Broadway, Va. s/off caught. 11/28-  
 At 12:05am TISRHB-1125 R. Capital ID heard. 12/2 sounded like one of the best  
 SSS openings I've heard this Fall with chanting likely from the Egyptians heard  
 clearly on 773 & 818. At 1:45am on 12/10, KRMG-740 clear w/CBL off. 12/17- WNCA-  
 1570 s/off noted @ 5:14pm and WBBR-1580 s/off noted @ 5:17. 73.

STAN MORSS - Route 3 - Broadford, Massachusetts - 01830

12/8- Vinnitsa-1546 fair signal 4:50pm for new country, tape & letter  
 sent so here's hoping for a verie. Verie from WQIZ on CM. 12/9- Annual report to  
 RAI-1115 4:50-5:30pm on another good TA night. EE on 1546 but weak. 12/11- XERH-  
 1500 in well @ 12:50am for a report to new address supplied by Ernie Wesolowski.  
 1457 had a Latin-language plus Chinese or Oriental mx @ 1:07am & an anthem @ 1:25,  
 then OC to 1:31 & chimes & military intro & into more items by man & woman. Let-  
 ter & tape to Tirana requesting info. CKKR-1330 its usual strong signal @ 1:55am.  
 WMEE-1380 way over all on channel this AN @ 2. Two EEs on 1546 but weak, 2:10-  
 2:15am. WMM-1090 Wilmington, O. TEST 2:20am, still on after 4:30. CFRN-1260 over  
 all 2:18, w/EZE seemingly off MMs now till 3. CKRM on top of 980 @ 3 w/WTRY  
 OC/TT during AM plus WONE AN show. TT u/WOR @ 4:10 but no ID by 4:25 heard here.  
 12/13- I hit an AST station on 1340. I expected it would be CJLS - surprised to  
 hear long-wanted ZEM2 in like a bomb 5:12-5:30pm to complete Bermuda - many commer-  
 cials, while I was on my annual hunt for WHOU - I'll get 'em some day. 12/16-- I  
 finally logged WBUF-1580 topping the frequency @ 3:50pm to 4:05 for a report.  
 Still 13 to go to complete New York. WFAU/WJME fighting it out on 1340 while look-  
 ing for WHOU. 12/18- CKARL-1340 Parry Sound Ont. to 1:02 s/off, tape sent, for a  
 new one. ZFB-960 Bermuda AN w/Hi ads, QRM by CFAC & TT/OC tester, CHNS off, and  
 probably was the tester. WCWC-1600 Ripoff Wis. in on DX, fabulous signal on night  
 pattern & poor days & WWRL off all AM! WPJD-1550 Daisy Tenn. f/c 2:50. WTHM-1530  
 & Lapeer ET @ 3. WWS-1450 AN topping the frequency. CHSJ/CJRC et al inaudible, &  
 Ondas del Caribe, TVMV, Punto Fijo on top of 1150 @ 3:40am. WKEN-1600 Dover Del.  
 w/ET 5:13-5:19 s/off, OC, TT, etc & still no WWRL - WGIV I think weakly & SS, may-  
 be WLUZ - tape may tell. Sure happy to see WWRL off as WKEN was long-wanted &  
 leaves two Delawares still needed - WNRK & WTHD. WEZE off till 3 again & it's  
 third week in a row so I guess a regular SP.

WELDON T. CHILDERS - Box 188 - Carbon Hill, Alabama - 35549

I am proud to be a new member of NRC. I enjoy DX NEWS. I  
 haven't received my New Member Kit, so please overlook any foul-ups in abbrevia-  
 tions, etc. To introduce myself, I am a 38-year-old bachelor & have been a math  
 teacher in the local high school for the last 14 years. I was an avid DXer as a  
 pre-teen and a teenager. I used an old Majestic table model then, and just became  
 interested in domestic DXing again a few months ago. I've been using a DX150A with  
 Mr. Worcester's SM-1. Since beginning again, I've picked up 320 stations. Some  
 that I'm most proud of are: KISA-550 Tex., KFI-640 Cal., WGBS-710 Fla., WEW-770  
 Mo., WGY-810 N.Y., XEPW-810 Mexico, KOAM-860 Kan., CHML-900 Ont., CBM-940 Que.,  
 KNOK-970 Tex., WITY-980 Ill., 4VEC-1035 Haiti, KIXL-1040 Tex., CJIC-1050 Ont., KNX-  
 1070 Cal., WRNC-1240 N.C., WXCL-1350 Ill., WOC-1420 Ia., WOHO-1470 O., KOTN--1490  
 Ark., ZNS1-1540 Bahamas, KTUI-1560 Mo., KWCO-1560 Okla., CFOR-1570 Ont., KPAC-1580  
 Ark., & WGOE-1590 Va. CX have been great here. Good DX to all. (Welcome to you  
 took Weldon, and we hope you'll be a regular contributor to our Musings! -ERC)

PLEASE DOUBLE SPACE AND MUSE OFTEN. DEADLINE RETURNS TO THURSDAYS IN BROOKLYN.



MIKE COLLINS - 2021 Main Street - Stratford, Connecticut - 06497

Two NSPers were off in the past week, making DXing interesting. WICC-600 was off Fri. 12/15 from 2 till after 4am. WTAC-600 dominated from 2:30-2:45; then WPDQ Jacksonville was o/u WTAC w/R&B (WTAC is heavy rr). WPDQ was a new one. Around 3 WMT-600 dominated for a while with standard MoR & NX. At 3:15, WCAO-600 took over for a while with many rr oldies. WCAO had not been heard in several years here, except briefly for an ID earlier this season. Then around 3:30 an EE tele-talk show came in o/u WCAO, but I never did get an ID. It was similar to the WMCA talk shows. Could this have been WREC-600 Memphis? At 3:45 an unID SS took over. All these were heard w/R' Libertad in Colombia nullled. Again, no Cuban was evident on 600. Interestingly, on a very Auroral evening, Sat. 12/16 R. Rumbos from Venezuela dominated 670 all evening w/no sign of the Cuban. It appears the Cubans have changed the frequencies and/or powers of some of their stations. Also that evening, 12/16, CBZ-970 Frederickton, N.B. was heard very well with an opera & then ID for both CBZ & CBD St. John @ 10pm. On MM 12/18 I tried 540 around 1:45am & there was a female DJ playing contemporary mx, but I didn't get an ID. At 2 there was too much interference from SSES to hear the KNOE-540 Ia. DX; it was somewhat Auroral & apparently Monroe is too far inland (near Arkansas) to make it under such CX, so the KNOE TEST was not heard. So I went to 1600, with WWRL-1600 N.Y. signing off w/three bars of the SSB @ 2:10am. This is the first time WWRL has ever been heard off here. Even w/WWRL still on, the WCWC, Ripon, Wis. TEST could be heard, but it came in very well after they went off. It was very interesting to listen to, with calls from many DXers put on the air. The CE, Paul Veleke, gave an explanation of what DX is & was very happy at the response. WCWC was very good on its day pattern and only fair on the night pattern, w/KATZ-1600 u/WCWC. At 3:10 or so, KATZ went to its day pattern knocking WCWC out completely for a time, then went back to its night pattern shortly before WCWC closed down @ 3:30. I stayed with KATZ until after 4. There was another station way under it w/rr, but I never got an ID. KATZ has the same "Big 16" jingles & NX sounder that WWRL was using last year at this time. WCDQ-1220 Conn. goes oldies-rr 1/1 leaving Connecticut w/only two c/w AMers, WFIF-1500 & WEXE-1550 & one c/w FMer, WIOF. WVNJ-620 Newark N.J. was indeed on AN for about a week in November, playing rr oldies 1-5am. The announcers played it straight, and you could tell they did not know the mx. At the time I wondered whether it signaled a format change for WVNJ, but the whole thing was dropped shortly after. At long last, WICC-600, which has been NSP, has a regular SP, SMs 4-5am. It's not MMs, but it's better than nothing. 73.

RICHARD NOEL ALLEN - Billings, Oklahoma - 74630

I hope everyone had a Merry Christmas and that the New Year is being good to you. As of this writing, 12/19, the XELO/XEROK situation is a bit confused, as they have not been heard the past three evenings. Last week, they had returned to religious programming and the XELO ID. Does anyone know what is going on S of the border? CKLW dominates 800 for the moment, booming in with a good signal. IA DX has improved the last few days, but I haven't been in the mood to listen because of the language barrier. We are enjoying warm WX after a record breaking two weeks of suz-freezing temperatures. The following DX was heard on a Pioneer SX-300T RX & 2' altazimuth loop: 12/13- R. Mexicana, XEFL-580, heard @ 5:03am u/IBW w/ranchero mx & SS. 12/15- UnID, probably CFOR-1570, weak @ 12:02am w/off in EE u/XERF. 12/16- KTUF-1580 s/off heard @ 7:15pm. KBGO-1580 heard with oldies u/XEDM @ 11:04pm. 12/17- WCIS-1580 heard w/rr @ 4:15am w/KLOU. CKFH-1430 heard w/rr @ 5:27 u/KELI/WIL. 12/18- KKAT-1430 heard @ 2:06am w/f/c. XEF-1420 heard in SS u/KTOE @ 2:45am. WKL(-1080 w/rr @ 4:07am & no KRLD. CBE-1550 with typical CBC fare @ 5:10am. KOKA-1550 s/on @ 5:30. UnID, probably CBEF-540, weak u/KNOE w/On Canada. R. Corporacion, XNOW-540, s/on @ 6:02 in SS. New veries, v/g from PJB (R. Nederland) CHIR CKLG CKLW, the latter mailed from Southfield, Mich. & returned the postage I sent. Many 73s in '73.

#### HEARD SINCE LAST ISSUE

800 X E R O K	Ex-XELO	1060	K A M A	El Paso, Texas (SS)
850 K L E U	Waterloo, Iowa	1140	W C J W	(location not given)
940 W F N C	Now 50 kw. days			

## IDX INTERNATIONAL DX DIGEST

PROPAGATION & FEATURES

GORDON NELSON/48 HARDY AV. WATERTOWN, MA 02172

### REPORTEDLY IN OPERATION...

**SPANISH SAHARA.** EAJ203, Radio Sahara, has begun answering reception reports after a long period of non-response according to SWBC DX'ers in SPEEDX; signer is Federico Campos Alvarez; might be a good time for a follow-up report if your reports have gone unanswered. According to a recent SW QSL, the MW outlet is still running 50 kw on 656 kHz with a 5 kw auxiliary. Schedule is 0755-2300 GMT. This one was heard fairly well in previous years but not a peep so far this season.

**MALTA.** The Malta Government ordered the BBC to close down their relay station due to complaints from Egypt regarding Arabic language transmissions. This was in November; no information yet on whether it did indeed go off. (MWN)

**SWITZERLAND.** Beromunster on 1562 kHz has been testing with Foreign Service programming including ID's in English and French. Beware! (MWN)

**SPAIN.** The Spanish station on 1097 kHz, La Voz de Guipuzcoa, transmits from Monte Ullia near the French border and is programmed in French daily 0600-0800 and 1115-1145 with the slogan "Atlantic 2000". Address for reports is Residence Panorama, 38 rue Labat, F-64100 Bayonne, France. The news for this station comes from the local paper Sud-Ouest at Bayonne. The French government regards this station as an undesirable pirate operation and has protested to Madrid. (SCDX)

**ANTIGUA.** ZDK on 1100 kHz has had trouble of unpaid electricity bills and the government cut power several times last fall. (MWN)

**CZECHOSLOVAKIA.** The Czech reported on 704 is a drifter up from the normal channel of 701; Prague is no longer active on 701. (MWN)

**DOMINICA.** WIBS, Dominica is reportedly now on 595 kHz, a move from the old 695 kHz spot. Can anyone confirm? (MWN)

**PARAGUAY.** One additional note on ZP-19 reported last issue on 645 kHz by Geoff Trower in England: he had to wait until Iran on 645 signed off before he could ID the Paraguayan... (MWN)

**INTERNATIONAL WATERS.** "Radio 1187" on 1187 kHz noted testing in English and Dutch; address given as P. O. Box 2448, Haag, Holland. (ARC) Bill Bailey here in Massachusetts reported hearing a TA with Rock music and English announcements on 1186 the other night; probably the same one.

**BULGARIA.** Several new stations are now on the air; the following update the latest EBU: 701, Sylistra, 10 kw, nominally on 710; 1043, Petrich, 10 kw; 1178, Goze Delchev, 10 kw; 1286, Smolian, 30 kw; and 1295, Kurdjali, 10 kw. (ARC)

**MASIRAH ISLAND.** The high powered BBC relay station currently operating on the hopeless for North American reception channels of 700 and 1410 kHz, is contemplating changing from 700 to 890 kHz and from 1410 to 1260/1290. The former change just might be possible here in the Northeast if we can get past Algiers but the latter..! (Ken Brownless, England)

## LOCAL RADIO IN THE UNITED KINGDOM

Since the BBC initiated Local Service stations last fall, we've been receiving so much confusing and contradictory frequency and power information from various sources that we've given up trying to keep things straight for the time being... Many of us here on the East Coast have noted traces of some of these stations, especially on 1457 and 1546 kHz, but signal quality is usually so poor as to render positive ID impossible. One of the first tentative ID's on a Local Service station comes from Bill Bailey in Massachusetts who reports hearing a "Radio... Bristol" ID on 1546. Despite listings of moderate powers, most of these stations must still be in the 500 watt and less range, judging from reception over here... Rather than continue to propagate the confusion, we'll hold off until some of the confusion is resolved. If you do manage to snag a positive ID from one of the Local BBC stations, here are addresses for reception reports:

Radio Birmingham. Manager, Pebble Mill Road, Birmingham B5-7SD. No tapes.  
 Radio Brighton. Station Engineer, Marlborough Place, Brighton BN1-ITU.  
 Radio Bristol. Manager, 3 Tundalls Park Rd., Bristol BS8-1PP.  
 Radio Blackburn. King St., Blackburn, Lancs. BB2-2EA.  
 Radio Derby. 56 St Helen's St., Derby DE1-3HY.  
 Radio Humberside. 9 Chapel St., Hull HU1-3NU.  
 Radio Leeds. Merrion Centre, Leeds LS2-8NJ.  
 Radio Leicester. Epic House, Charles St., Leicester LE1-3SH.  
 Radio Manchester. 33 Picadilly, Manchester M60-7BB.  
 Radio Merseyside. Commerce House, 13/17 Sir Thomas St., Liverpool LI6-BS.  
 Radio Newcastle. Crestine Ahouse, Archbold Terrace, Newcastle-upon-Tyne  
 Radio Oxford. 242/254 Banbury Rd., Oxford OX2-7DW. NE2-1DZ.  
 Radio Nottingham. York House, Mansfield Rd., Nottingham NG1-3JB.  
 Radio Sheffield. Ashdell Grove, 60 Westbourne Rd., Sheffield S10-2QU.  
 Radio Teesside. 91 Linthorp Rd., Middlesborough, Teesside TS1-5DG. (ARC)

The "Union internationale des télécommunications" in Genève publishes occasional lists of world broadcasting stations. The following are notes on interesting entries for African stations:

- 629 LIBERIA, Monrovia is here from 650 kHz to comply with the African LW/MW agreement (C.A.R.) of 1966. Pwr: now - 10kw, soon - 50kw!
- 764 SENEGAL, Dakar has a DA pointing  $90^{\circ}$  (due east), thus its weaker signal in NA in recent years.
- 836 ZAIRE, Kinshasa. With the calls 9NRA, this 10-kw station will soon be 250kw, if not already.
- 908 THE GAMBIA, Bathurst, is assigned 1-kw here by the treaty. A good hi-A possibility - if it's active.
- 935 MAROC, Agadir also has a DA - major lobe  $145^{\circ}$ .
- 1295 GUINEA, Conakry (Kipe) is listed here w/10kw. Likely the compiler's mystery African of last season. Same DA as 1402.7 kHz.
- 1349 MAURITANIA, Nouakchott, noted power increase to 100kw soon.
- 1403 GUINEA, Conakry (kipe) has a DA with major lobes  $47^{\circ}$  and  $277^{\circ}$ . 1295 kHz above has the same pattern.
- 1502 SENEGAL, Tambacounda should now be on 10kw as planned; was 1-kw.

(Ron Schatz)

This graph shows the daily values of  $A_{FR}$ , the Fredericksburg index of geomagnetic/auroral disturbance in the Earth's magnetic field. High values of the A index occur during a heavy influx of electrically charged particles into the upper atmosphere as the result of certain types of solar disturbances. The intense medium-wave signal absorption produced by one of these events is greatest in high latitude regions and persists for several days following the disturbance. Values of A above about 20 are inevitably associated with heavy signal absorption along TA and TP paths; very high values (above 40) are usually accompanied by E-layer blanketing over North America and Europe; on such a night reception from stations to the South will dominate. Extended periods of low geomagnetic/auroral activity are necessary but not sufficient to guarantee excellent high latitude MW reception - other ionospheric effects such as sporadic E and the Midwinter Anomaly may effectively mask what would otherwise be excellent reception on high latitude paths during periods of extended geomagnetic/auroral quiet.

