



# DX News

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DX CLUB  
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## Mail Mystery

Our mail survey of last month has produced some rather curious statistics on the length of time required for DX NEWS to reach the membership. In particular it would seem that the Boston Post Office is not to blame - when you get your DX NEWS seems to depend on YOUR local postal system. For example (bear in mind that we regularly mail about 2100 on Friday night):

- \* In Hawaii, Richard Wood gets his copy on Monday or Tuesday by First Class.
- \* In Ontario, Charles Reh always gets his copy on Tuesday by First Class.
- \* In Colorado, Glenn Hauser receives his First Class copy anywhere from Tuesday until the following Monday.
- \* In California, Gene Matlock gets his copy regularly on Monday - First Class.
- \* In Wisconsin, Tom Mann usually gets his on Mondays - by THIRD Class.
- \* In Pennsylvania, Frank Wheeler has to wait from 10 to 21 days for 3rd Class.

And so it goes. Those members who've recently switched to First Class report that service is speeded up greatly - but whether or not they'll get Monday delivery seems to depend in some obscure way on local conditions. One unexpected conclusion seems certain: the holdup can't be in Boston if members like Matlock and Mann usually get Monday delivery. So if you've been writing angry letters to the Boston Postmaster every time your DX News is late, you might try switching your attentions to your local P.O. HQ notes with interest that Congress may again decide to hike up the rates for 1st Class; perhaps so they can route more airmail mail through Hawaii...? The last two issues were both mailed about 2:00 Friday.

## picture it!

If you've got a mind to send some goodies to HQ for DX Showcase but decide to send photocopies instead, get them made on a XEROX machine (preferably model 9000) and not on an SCM machine - the contrast is too low on the latter process.

"Although this is somewhat belated, may I congratulate NRC on a monumental success - - the NRC Domestic Lot!"

Jim Corn, IRCA C.I.C. Chairman

Have you got your spare copy yet?

Archie Bell

April 19, 1969

LIKES OUR N.R.C. LOG!

"My thanks to the Boston guys for getting the NRC Log here. I really think it's GREAT!" - Bill Alisuskas; Haledon, New Jersey.

SPECIALS

Thu. April 24	K O V E	1330	Lander, Wyoming	1,000	2:01 - 3:00	I R C A
Sat. April 26	K W R C	940	Woodburn, Oregon	250	3:15 - 7:??	NRC-TEST
Mon. April 28	W K O Y	1240	Bluefield, W. Virginia	250	12:01 - 2:03	N R C
	K T U F	1580	Tempe, Arizona	50,000	2:01 - 2:30	IRCA-TEST
Mon. May 5	K A A A	1230	Kingman, Arizona	1,000	3:00 - 7:30	I R C A

KOVE-1330, Lander, Wyoming, 82520, Mr. Joseph Reighley, Technical Director.

KWRC-940, Woodburn, Oregon, 97071; 608 North Pacific Highway, c/o Public Relations. Please note this is the correct address; not as it appears in the NRC Log. This will be a Poof of Performance type of TEST, which will start around 12:15 a.m. P.S.T., and will consist of music and cycle tones, and frequent station IDs. This station had a test a few months ago, which was a great success - in fact, they were heard on the Eastern Seaboard. So, be sure to try hard, and you'll quite possibly be rewarded with a fine DX achievement - logging KWRC! Info from Roger Blanton.

WKOY-1240, Bluefield, West Virginia, 24701 - Mr. Raymond G. Kelley, W8BKD, Chief Engineer, P.O. Box 800. This is a very friendly station which loves to receive DX reports, and they are hoping for a lot of them after this special broadcast. We do not know the type of modulation they will use, but it will probably be recorded music and plenty of station IDs. They may go off at 2:00, or may run until 3:00 a.m. They want only POSITIVE reports - poor ones will NOT be verified, which is as it should be. Quite a few all-nighters there, but they should make it through to many of us - give them a real, good, try! - FRANK WALDRON

KTUF-1580, Tempe, Arizona, 85012, Mr. Thomas Chambers, Chief Engineer, Suite 700, 3003 North Central, Phoenix, Arizona, 85012. This date is "tentative".

KUUL-730, Billings, Mont. was on with a test for IRCA on Saturday, April 19th. Info received too late - sorry. Albert Ortmann, Chief Engineer.

We've been having typewriter trouble here in Brooklyn - the electric machine with the new ribbon in it just won't reverse itself when we get to the end of the spool, and we tried it on two pages & had to switch back to the old L.C. Smith. Please excuse! We hope to have the I.B.M. going right for next week's issue, the last of the weekly issues for another DX season.

		HEARD IN THIS LAST ISSUE	
1250	K W S U Ex-KWSC	1430	K K A T Ex-KGFL
1290	W T Y L Tylertown, Miss.	1460	W R K B New antenna system
1300	W K C Y Now 5,000 D-1	1470	W Y Y Y Ex-WKLE
1350	W I X Z Ex-WNCK	1560	W D X R Now 10,000/1,000 U-4
1380	W I Z O Franklin, Tenn.		

"AND" SITUATION

ONS-	580	C K P R NSP	950	K P R C SMs only
	1230	W J O B AN-6	980	W I T Y Now s/off 2:00 daily
	1240	K S O N AN-7	1180	W H A M SMs only
	1350	W I O U AN-8	1240	K R O Y MMs only
	1490	K B Z Y Sat/Sun only	1300	W T A Q MMs only
			1400	K P A T

After next issue, it'll be two weeks, dated May 10. Deadline in Brooklyn, etc.

# MUSINGS of the Members

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Ed. note: While we await a new ribbon for our electric typewriter, we'll carry on with the "Old Faithful" "gas" typewriter, used in DX NEWS for so many years.

JOHN JAVITSKI - 104-21 123 Street - Richmond Hill, New York - 11419  
Hi there. QRN is finally reaching the nausea stage here, but in spurts. The Auroral MM 3/24 brought an unk Skw. s/off on 1310 @ 12 announcing location as State Street. A Cavan atop 1260 & an unID SS on 1310 @ 1; Colombia Caracol on 1439 w/CKPH non-existent @ 2am; 1240 sounded beautifully noise-free w/WBML Ga., WKDA-Tenn., WROV-Va. all heard as well as an rr test-end from WKOY, W.Va. @ 2:15. KMAM-1530 TEST just made it at about 3-0 3:48-4:07 when WCKY threw on their carrier. No slop from WKBW on 1530 since they were also inaudible on 1520. On MM 3/31 an SS on 1190 12:30-12:45 which sounded like R. Cordiero or the like. Who? KTCR TEST not IDed, but possible IDs @ 1:10 & 1:14. My TT heard, either. Veries here: v/q- WKOY WZKY. v/f- H. Barbados, WAGO & KMAM-TEST, & v/l's from WTKO & KRDS. Totals now 1,060/313. To Dr. Wes: My loop is eight turns plus one center turn & is 43" near-square & works fine. Ah, I'd love to see some night pattern maps. Would anyone out there be willing to get an air check of one Bill Ross at WWOW-1360 Ohio? I'll pay postage, tape, etc. Also, any 2' loop plans would be appreciated here. A Word of Warning: Hide in the crease and you won't have a hill to fall off of. (aiise). Till next time, the second prime # after 67 on you.

FRANK WALDRON - 65 Lakeridge Drive - Matawan, New Jersey - 07747  
Greetings pipples. DX: 3/29- Unk WLLH-1400 @ 12:30am w/rr. UnID ET or f/c ending 12:29 on 1490 w/'Dixie' played. XELO-900 swamping CKIW @ 12:54, so report sent to Record Roost, hi. WTIP-1240 nicely atop @ 1:28 w/ID, then mx. WGLB-1550 ET/mx/TT as promised by Roger Winsor. MM 3/31- Tentative sent to CHHT-1450 as the ETC w/NX until s/off 12:47, well atop at times. WKAM-1460 f/c-TT 1:07-1:17 very strong. WFRB-1360 ET/OC @ 1:30, IDs every five minutes. WDCN-1290 ET sounding like RS @ 1:44, even had a WX report. CMQ-640 either off or terribly weak, noted on later but on the weak side. WFBA-1460 PR s/on 4:37 w/OC, weak & faded. And then, I grabbed an ID from KGA-1510 @ 4:17 while the ETC announcer was taking a breath, hi. But then CJRS put on non-stop mx so no report. That's State #42. WLIJ-540 has been noted off the air since 3/29, what happened? I can get along without 'em. Veries continue to be terrible, this time only three, but one a goodie, RTAR-620 v/q. v/l from WNRV-990, v/q & cleverly disguised v/f to look like v/l from WINE-940. Special DX-TEST from WKOY-1240 will be on MM 4/10, beginning at midnight to 2 or 3 am. They'll probably use mx, and want good reports or in veries. This is for NRC/IRCA, arranged by yours truly. I received v/q from WDXB-1490 saying it was not they as the rr station on 3/24 during Aurora, so who else is AN-rr in the South on 1490? Also WYNS-1150 sent a second v/q, for no apparent reason. Late DX: 4/1 WELV-1370 strong @ 6:30pm. 4/3- WNNC-1430 strong w/WNJR called 6:59pm, 30 minutes before SSS. Also what probably was WHIL o/u WENE @ 6:20 w/sound of mx. How about a group of NYC & vicinity DXers getting up a petition to get such stations as WJAT, WMCA, etc. to leave the air on MM for a period? I don't know if I'll do my part, but it's worth a try anyway. 73.

KEN LYON - 5155 South Nestled - Akron, New York - 14001  
DX this week includes: 3/29- WQTW-1570 s/off @ 6:30pm, 4/1 WWOW 1500 @ 12:03-12:15am & on w/ET/TT & some FM, KVOL-1330 @ 1:13-11:00 w/TT w/WBML, WKAM-1460 @ 1:47-1:55am w/x/c-TT w/slop from WWL, WAXU-1580 s/off @ 2:11pm, on 3:00. 4/3- WGAN-1470 s/on @ 6:02. I slept through KTCR-TEST, I wonder if it was heard. Veries are WEFJ WLIK & WNPV. C U later.

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RICK EVANS - Box 718 - Gary, Indiana - 46401

Good morning. First of all, congratulations to my father who is now a grandfather (as of 2/1) which makes me an uncle, hi. I was up listening 4/7 & the top catch as far as I was concerned was WGAN-560 Portland, Me. Next to it was the matterings on 650 which I am told was Hawaii (yeah) by Roger who could hear them better than I. I did not put them in my book, as I wasn't sure. Heard 4/7. WELQ-580 Tupelo Miss. s/off @ 2:05 w/SSB; KTWO-1030 Wyo. in briefly but too weak to copy. WCAR/WNEW-1130 mixed well, both playing good easy-listening mx. Veries needed from both so reports taken on both (good trick when both play the same songs - I heard "Fool on the Hill" twice, hi). WITF-680 noted @ 3:17 w/HI. WWXL-1450 Manchester, Ky. heard 3:40-3:48 w/ET & f/c, hard to hear because of WVON in Chicago; WGAN-560 Portland 4:05-4:28am w/HI-type of mx complete w/girl. Good mx but WIND, w/towers about five miles from here insisted on turning on an OC during my favorite songs, hi. Veries since 1/1: WENO KIXZ (for 11/30/66 report) CJGX (for 11/24/67 report) WJOL EWK WQIK KMAM. F/ups were NOT sent for KIXZ & CJGX, they wandered in on their own accord. Totals here are now 608 heard, 297 verified. Any newspaper collectors in the crowd? Drop me a line - I have 1,655 papers. Nice to see Dave Kulka & Russ Brown when they dropped in at work - sorry visit had to be so short. 73.

PAT FLANAGAN - 4021 Sharon Park Lane - Cincinnati, Ohio - 45241

Hi group. It's really been a long time since yours truly Mused. A re-introduction might be in order. I'm 20, a student at St. Francis College of Pa., & have been a member of the greatest DX Club, the NRC, for three years. I am working at WEND-1580 in Ebensburg, Pa. at the present time. So, if anyone is having trouble w/a verie, please write me. I never see any reports & the CE says he handles all of them. DX has been non-existent for me for the past year, but I hope to get back at the dials this Summer after school gets out. I'm home now for Easter vacation so I have a little time for DX. This morning, 4/7, proved very interesting I don't have my RX & loop set up so I thought I would tune around w/a small portable before going to bed. CX to the West must have been fantastic because I got strong signals from KFI KFEK & KGBS. I also nabbed long-sought KSWB-1020 @ 12:32 w/ID. Have they changed their pattern or something? After trying for o/three years w/the big DX machine & finally getting them on a \$20 portable w/no loop, makes me wonder. I was quite surprised today when I got a verie from CJGX-540 for reception last June. On the local scene, WUBE-1230 has changed from rr to c/w as of 4/1. That gives Cincy one rr & six c/w (counting FM) - an Ernie Cooper paradise! That's it for this time - I hope to have more to report later. Address correspondence to above address. It will be forwarded till school's out. 73.

DAVE CARLSON - 516 Hickory Hollow - St. Louis, Missouri - 63122

DX not too bad since last Musing. MK 3/24 - Truly Auroral, as the 910 Venezuelan had a fantastic signal most of the morning. HJBI-840 was in good, too, around 2:17 plus another AN-SS on HFO. Only other DX was the KMAM-1530 TEST in good as expected. MM 3/31 - XEMR-1140 finally IDed @ 1:02am; WMOP-900 Fla. logged on ET @ 2-2:10 tuneout, WBNX-1380 SS @ 2:11, WLT-920 "R. Tapatia" in good & all alone @ 2:29 KUDL-1380 Kans. ET-rr ending @ 3am. A religious program was heard on 780 @ 4:49 w/a Cloverdale, BC, mailing address. There was an ID @ 4:59 but they faded out just then to WABC/WAKY slop. Was this ZWV on a bit early? MM 4/7 - KBOL-1490 Colo. was logged very faintly o/mess at various times between 4:37-4:44 w/IDs beginning every 30 seconds (or so it seemed). WPKY-1400 Ky (unn but a good one for the Contest) had a test w/ID right after, @ 4:46. A recent trip to our new house in Springfield revealed a pretty good DX location. 11 1/2 in Chatham, which is about ten miles S of Springfield off US 66 & pretty much out in the country. Daytime DX on the car radio netted WJR KOZN-660 & others not audible during the day here in St. Louis. Here's hoping, anyway. The Convention time isn't too far off so make those plans NOW to come to ST. LOUIS. DX NEWS continues to be superb. Is EREA really a Ralph Williams enterprise? Hi. 73s.

ST. LOUIS LOOKS FINE - IN 1969! ■ ■ YOUR INTENTION TO ATTEND THE CONVENTION?

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CHARLES REH - 34 Garrison Avenue - Leamington, Ontario

Recent DX: 3/25- WKCX-1300 Va. ET/TT 3:01am o/WERE. 3/31- WSIN-1610 Cincinnati pirate w/rr 12:30am, seems to run AM on weekends. 4/2- HJDB-990 RCN all alone 1:30am; WYXY-1470 (ex-WKLZ) Mich. 7:15pm s/off w/WOHO nulled; KTUI-1560 Mo. WX 7:31 o/WQXR. CKLW-800 has been ordered by the CRTC to sell the station or meet Canadian ownership requirements by 9/1/70. CKLW is owned by Western Ontario B.C. which is owned by RKO Distributing Corp. of Canada, owned by RKO General, Inc., owned by General Tire & Rubber Co. of Akron. According to new rulings, a Canadian station must be 90% Canadian-owned. Other reasons were given for the decision against CKLW: (1) Use of Drake format which the CRTC called "making cupcakes and selling them" and not meeting "the constantly changing needs of the public." (2) Lack of identity with Windsor and Canada. News for CKLW & CKWW showed this: Windsor NX, CKLW-12%; CKWW-21%; Canadian NX, CKLW-3%; CKWW-36%; U.S. NX, CKLW-63%; CKWW-7%. (3) Lack of news and public affairs programming: In 1962 CKLW had 32% of such, & in 1968 it shrank to only 4%. 73.

ISAAC EAVES - 10113 Pillot Street - Houston, Texas - 77029

I was glad to see the plans for the audio filter in the 3/8 DX NEWS. I built it using two units with a way to switch it in and out of the circuit. It seems to work fine, but it didn't make my RX more selective, hi! I also built a loop rotator using a 6 VDC motor driving the gear train from a barbecue pit rotator. A battery charger drives it through forward-reverse pushbuttons. The motor and loop hang from the ceiling. Late DX: 3/26- KFI-640 Cal. in B-6 @ 6:47 w/ID & highway info because of a landslide. The Cuban was off. CMCI-760 Mexico Nacional is bound to have more than 1kw. It has been S-9 several nights this week. KPBC-1470 La. in for ID @ midnight. MM 3/31- KXYZ-1320 local SP is 2-6am, s/off w/singing SSB. 1320, unID SS after KXYZ s/off, looped toward Colombia. I heard one ID before fade - I couldn't read it. WGRS-710 Fla. OC & ID @ 2:45; KMPC-710 Cal. ID @ 2:52 faintly in the OC of WGRS at the opposite end of my loop; WILW-600 Kan. HI, then s/off @ 3 w/SSB to return @ 6; KFEK-1530 Cal. s/off @ 4; WTOP-1100 Washington w/ID @ 4:10 followed by mx & non-stop NX. They NSP now? Somebody TTed behind them. 4/1- KPBC-1510 La. in handily w/harr-headed Bill Lambert Show. 8/0n in 6:30am. 4/2- I couldn't hear the KTCH TEST through WTX. 4/3- KTRF-1400 Tex. s/off @ midnight as per NRC list. (Log? -ERC) 4/4- WPCF Fla. w/good signal IDing a 9:15pm. MM 4/7- 570, unID TTer 2:45-3:15 tuneout; 680, unID TTer 3:30-4. No go on the WAGE & KYOL TESTS. I guess we better get ready for a long hot Summer as far as DX goes.

DON ZARKEY - Hotel El Rancho - Box 235 - West Sacramento, California - 95691

Nothing new in the mailbox this week & only reports out over some 1000. Iod are to KORE KVAC & KATN. MM 4/7 was much improved over the past three or four MMs w/CX to the E & N the best since early February. KCRC & WBR were especially strong & KFAB was pounding in also. WBT was noted under them about 6:00am but I still failed to get WRAL in loud enough for a clear ID over on 1000. A new tape recorder has aided my recent DX as it has much greater clarity upon playback than the previous ones I've used. Last Saturday brothers Pietsch & Prather received their regular "whopping" at the pool table. You'd think they'd practice more since they don't let DX interfere with their other activities, hi. John Jayetaki KFOR 1110, Ontario, Cal. often runs AN w/MOR but is directional S; you probably had it. Dave Carlson - Your unID on 1140 w/phone number for Carry Out place as 200-200 is CRV. I heard this ad on 4/7 about 4:15am. Welcome aboard, Mike Hardaster. About all, 73

BILL ALISAUSKAS Jr. - 7 Avenue B - Haledon, New Jersey - 07008

Hi again! First of all, my thanks to the Boston group for putting the NRC Log here. I really think it's GREAT! Some DX to report from Millis, Pa. as I just came back from five days up there - man, what Spring Fever can do, hi! The DX there was real "dead" - all graveyarders except for one (Phew! What a pain!) And on MM 4/7 I noted these newies: WYSL-1400 12:18am, WQVA-1440 12:24, WBEI-1400 12:35 all alone (yeah - but part of the plot, hi!) WNAV-1450 1:00 w/ID, and 1:00

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1:06am. Then today, 4/8, one of my biggest accomplishments there - the logging of WICK-1400 @ 5:06pm. They are only 50 miles away but WEST usually dominates. So today after 5 1/2 years, while WEST had the ball game on, I heard Mutual NX, dominating @ 5:05, & then the ID! Total heard now 847 there. Also six new FMers added. New veries for Haledon, WFMJ & WOAY Till next, 73s.

WILLIAM B. FEIDT - 9931 Glenn Dale Road - Lanham, Maryland - 20801

Greetings to all. It has been many a moon since I have Mused. In fact, I believe the last time was in 1961 or 62 when I was residing in north NJ. My current setup is a typical apartment type setup with the antenna consisting of a 10' hunk of wire. Consequently, I am anxiously awaiting GPN's high gain loop plans. My RX is an old re-conditioned HQ-140X which doesn't do too badly considering the antenna it is being asked to work with. To catch up a little, I'll give you an idea of what I've been hearing this season. 1/20 brought WKYE-1550 @ 1:10 w/r/c, WAAO-1530 Ala. w/ET ID, KECK-1530 TEST from 3:02, but QRM from KFBK. 1/27 brought Dakar-764 from 12:55 w/OC, TT, IS, etc.; this is a new country here, most welcome. 1/28-St. Pierre-1375 between 7:30-7:40pm after many attempts for a new country. 2/1- I heard WSSA-1570 Ga. under much QRM w/ID @ 12:10, HJAC-1137 Emisoras Rio Mar, @ 1:30 w/ID in SS w/a very strong signal. 2/4- A very Auroral evening & I managed VOA-1180 Marathon Key @ s/off. I also noted many other SSeS including 1155, & El Salvador on 905k. 2/12- Also Auroral, & KGLC-910 Okla. was dominant around 10:50pm, good copy. Colombian-1175 from 11-11:25 in SS. (No, Costa Rican, William - R. Columbia -ERC) (Coe-Loom-Bee-ah) 3/6 brought Rome-945 L&C around 11pm & VOA-1196 also L&C around 11:30, both unkn. 3/10 was one of the best mornings for TAs I've had this season: Two unID 1594k @ 12:46am; I believe they were Dutch & Spanish, but not sure. Sierra Leone & Bordeaux-1205 battling it out around 1am w/Bordeaux winning out. Freetown is another new country here. Also TAs on 1:14 1295 1475 1457 1408 1376 & 1088, mostly unkn. 3/23- Lisbon-665 noted from 8:25pm w/mx in various languages, signal was quite strong. 3/31 brought Nice-1554 @ 12 w/local strength signals - best I've ever heard them, CHOO-1390 @ 4 w/NX on AN RS in/out w/WFBL. I will try to get reports in as often as possible, although the working of two jobs makes it difficult at present. I also am planning to try to make St. Louis. New format for bulletin is really fine. 73 to all & C U N 30, I hope. (Welcome, Bill? -ERC)

RICHARD E. WOOD - 1630 Ruth Place - Honolulu, Hawaii - 96816

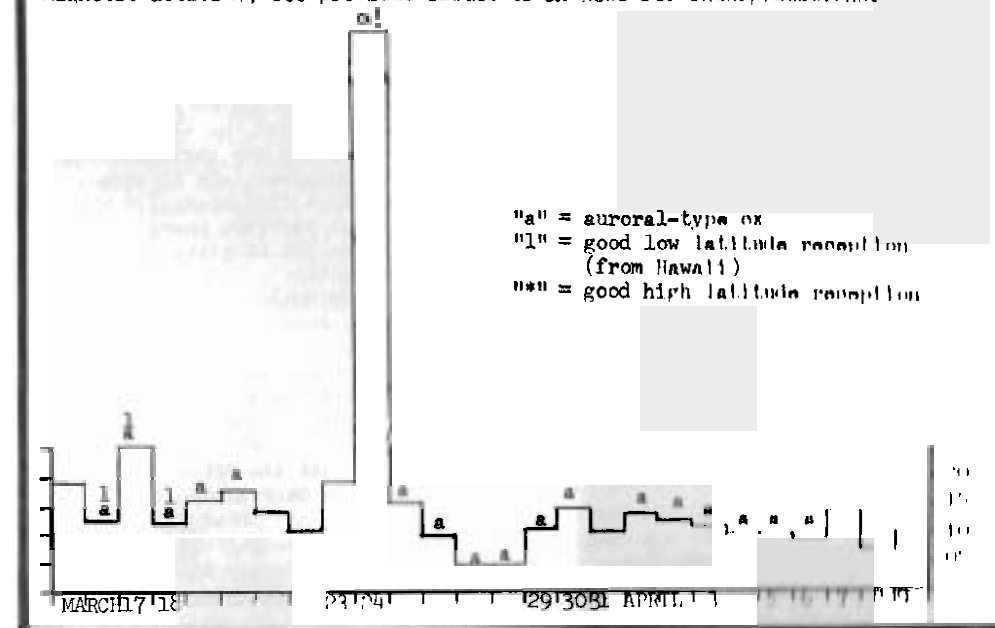
Veries: KHSL-1:40 Cal., first from Hawaii; WJR-760 Mich; CJOR-600 B.C., which enclosed copy of report from N.Z.; KFAB-1110 Neb., which wrote "Ernest Wesolowski of the Radio Club here in Omaha picked us up when he was vacationing in Hawaii. Our signal was pretty weak so he couldn't give us all the details, as you did. You have him bested there." KNNM-920 Alaska, first from Hawaii; KFBK-1530 Cal.; KXDL-1360 Tex., first from Hawaii; KMAM-1530 Mo. for TEST, most distant report ever; KTHY-790 Tex., most westerly report, WFAA-570 Tex., most distant report for the 570 frequency; KTSA-550 Tex., WNOH-1060 La.; KPND-1340 Tex. for my first Texas graveyard; said "We must also confirm this as the most distant reception of KPND in our 33 years of service. A former secretary of the Radio Club of America (!), a monitoring club of which you may be a member (!) was for several years my news director and station manager. His name is John Callarman, now connected with WCAS in Lowell, Mass.;" WKY-930 Okla.; KMCH-1440 Ore., first from Hawaii; KEZY-1190 Cal.; KUIS-990 Cal., first from Hawaii; KHDR-1240 Ore. Reports out to KCHV-970 Cal.; KDNC-1440 Wash.; WSMB-1350 La.; WINZ-940 Fla.; KGEN-1140 Ida.; KEYZ-1360 N.D.; KRYS-1360 Tex.; WDAY-970 N.D.; KINY-800 Alaska. Sometimes over half the calls to Johnny Walker's show on KIKI-830 are devoted to DX. He is on Tues. through Sun. midnight to 5 am, EST. If any of you feel like blowing the coast of a call to Hawaii, the special line, 536-3459, will take you straight in.

ONE MORE WEEKLY ISSUE OF DX NEWS, AND THEN IT'S SUMMER TIME. DEADLINE DATES IN BROOKLYN WILL REMAIN THE MONDAY PREVIOUS PUBLICATION DATE. PLEASE MUSE OFTEN!



DX conditions here in the Northeast remain strongly auroral, at least insofar as TA's are concerned. Highly localized receptions from restricted areas to the North and West are now being widely reported in various parts of North America as the blanket of absorption produced by the disturbance of 3/24 continues to "break up" and die away. We are still receiving descriptions of the onset and decay of that particular storm from the membership and we're holding off one more week with the analysis so that we might present as complete a picture as possible. Low latitude reception ought to be pretty good by now and that means it'll pay to watch for Aussies, New Zealanders, and possibly South Africans for the next few weeks at least. East Coasters may get their last crack at Australia during the next few MM's in the form of 50 kw 4QD on 1550. Until this week 1550 has been clear after KKHI signs off at 0300 except for the open carriers from the two LPRT's on AN and there've already been a couple of possible receptions reported from the East Coast. A very late FLASH from Sheldon Miller in Florida relayed by Foxy says that there's now a Colombian on the channel but we don't know if it's AN MM or not. He who misses his chance at 4QD in the next few months might well have a very long wait until another clear shot opens up again...

New geomagnetic/auroral activity continues at a remarkably low level after the mammoth event of the 24th; conditions during this recovery period will probably continue to be very erratic and spotty for some time still. Please drop us a note and let us know when conditions began to return to "normal" (i.e., as they were before 3/24th; take into consideration the advancing season too). The following graph of the Fredericksburg A index of geomagnetic activity; see previous issues of DX News for interpretations.



\*INDONESIA. According to a recent broadcast from Jakarta, the number of non-RRT stations around the capitol area has been limited to 19. Part of the text was, "Stations wishing to broadcast outside the 19 permitted frequencies will be allowed to do so only on the medium wave. Those unable to convert should stop operating by May 31st". So it looks as if Indonesia will get her first MW stations in many years pretty soon; good news for the Zedders at least... (Ed)

\*BRITISH HONDURAS. Belize plans to install new 1 kw relays on 910-920-930. (ARC)

\*CONGO. Kinshasa Radio is presently operating on 836 and 1448 although they're still announcing as 836 and 1331. (SADXC)

\*MOZAMBIQUE. The Beira station of Radio Clube de Mozambique is planning to test on 872 with 10 or 50 kw in June or July; now that Angola is on 1088 the channel ought to be clear... (SADXC)

\*SOUTH AFRICA. Odd item in SADXC caught my eye; it concerned a recent reception of Luxembourg-1439 and said, "Too much SABC carrier QRM here. By rights SABC should close all mw stations not in use after normal transmission is concluded". Is SABC now leaving carriers on AN a la Barbados, Jamaica, et al.? (Ed)

\*CEYLON. Indian sources report there's a new commercial station on 1420; NZDXRA thinks it might be a fairly powerful transmitter; all those on Gan Island perk up.

\*CLANDESTINE. "The Voice of Iraqi Kurdistan" is still operating on 1610 // to SW; now also broadcasts in Assyrian. Location still unknown; can't even tell if it's pro or anti Russian. Anybody see any press items about this one? (Ed)

\*CLANDESTINE. Radio Libertad definitely seems to have been discontinued; what seemed to have been a test transmission was noted on the 19 meter channel some months ago and nothing since. It's a shame they're gone because after several years of very tight security on their part (DF and circumstantial evidence suggested it was a U.S. backed and/or operated operation in Venezuela) they just might have accidentally blown their cover last fall. Several QSL's were received from the station last year - mostly for old reception reports that had been mailed to the Caracas address announced by the station. On the top of the Spanish-language return address appeared the letters, "DYTA" - just like that - all capitals with no periods between the letters. That's a very odd combination of letters for a Spanish-language acronym, especially with that "Y" in there. Some of the serious DX'ers interested in clandestine stations even tried to locate an organization or group with those initials in languages other than Spanish - but no luck. After a lot of digging in a lot of libraries I think I finally cracked the elusive "DYTA" and was in the process of following up on the lead when the station chose to drop out of sight and sound - alas, we were about a month too late it seems. No connection between the two events though it would make a good story for a pulp magazine... We eventually tracked down a company which in previous years made use of the acronym "DYTA" - exactly as it appeared on the Libertad QSL's - in, of all places, the Caracas phone directory (an old edition). It's an odd acronym for the Spanish name of a small company in Caracas dealing in certain specialized technical services and it is (was?) located a couple of blocks from the branch Post Office where Libertad had their Post Box. And, interestingly enough, also very near the United States Embassy. So it could be that this little concern was some sort of cover for Radio Libertad; the chance that the only group or company that could be located anywhere in the world with the acronym "DYTA" would be located within a couple of blocks of Radio Libertad's mail drop in Caracas is pretty small you've got to admit... If any of our members happen to be planning to visit Caracas in the near future and want to do a little snooping around, I'll be glad to give you the name and address of "DYTA" - who knows, you might have some interesting experiences if you nosed around enough! Thus endeth our annual visit to the murky depths of Black Radio... (Ed) P.s. - if you go to visit "DYTA", try wearing a Rollex wristwatch - it might confuse them, hi.



Members' Loggings:  
Bob Foxworth, GPO Box 2111  
New York, N.Y. 10001

Telephone Tip No.: 212-582-0844. All times in DX News are E.S.T. Deadline is Monday at present. Urgent tips may be phoned in Monday evenings; collect accepted. Mail deadlines preferably a Sunday box arrival. Please limit your reports to either post cards or standard 8.5x11 paper; both sides OK. I don't "cut-and-tack" but copy directly onto the plates.Tnx.

- 540 Australia. 4QL Longreach, Qsld. 0505 4/3, TC in "Eastern Time". (Wood, Hawaii) (A.E.S.T. is 10 hours ahead of Greenwich Mean Time-Ed.)
- 575 Costa Rica. "Musical", TIJC San José logged for the first time, ID with this ancmt.; gave exact time at 2100 TC, 4/3. (Objio, D.R.)
- \*\* 593 Morocco. Hrd at 2100 4/8 back on this freq. again. Their freq shift to approx. 600 kc must've been accidental. (Rugaj, Keflavik, Iceland)
- \*\* 600 Surinam. Radio Paramaribo, Paramaribo hrd with talk in Hindustani; I haven't hrd this stn for a long time. Very strong with ID at 1900 on 4/4 with HJHJ and CMKV both off, WAEL underneath. (Objio, D.R.) (I think this is called RAFAR, in the manner that 642 is called RADIKA-Ed.)
- 642 Surinam. RADIKA, Paramaribo hrd here very well at 1910 4/4, separable from ORTF-Guadeloupe on 640. (Objio, D.R.)
- 650 Costa Rica. Radio Monumental, TIBAS San José with frequent ID in news pgm 2020, first time hrd here, on Good Friday 4/4 with local HIAT R. Universal silent. Radio Girardot, Maracay very strong but completely looped out. (Objio, D.R.)
- 700 Japan. NHK pgm atop channel, same as 750. (Kaskey, Sacto, Cal.)
- \*\* 700 Colombia. R. Sutatenza, Cali ending test xmsn at 1945 4/4, carrier cut w/o NA, will be tenting again in following days. (Objio, D.R.) (Reportedly to increase to 125 kW, per ARC, must be no. See 810 item.-Ed.)
- 700 Guatemala. "La Mundial de Guatemala", TGHR, IDing at 0005 4/5 with pop mx, and a new log for me. (Objio, D.R.)
- 725 Surinam. SRS with clear EE ID 2146 4/5; into Easter pgm at 2230, was 10-15 µV strength. (Stan Mayo, Portland, Maine) SRS played their IS for a full 20 minutes, 0328-0348 before s/on, new country here. (Wood, Hawaii) (Isn't this earlier than has previously been reported hrd? -Ed.)
- 730 México. XEX with news at 0015 4/5. (Objio, Sto. Dgo., Dom. Rep.)
- 754 Nicaragua. YNX, La Equis, Managua very strong here 2217 4/1 with cigarrillo, Pepsi, Cerveza Aguila at 2219, ID in passing then pgm at 2220: "X-69, Páginas al Recuerdo" (maybe-Páginas del Recuerdo - card got here smeared with cancellation ink-Ed.) Hrd spurry sound on 750 and 760, signal occasionally simultaneously and weakly readable on 750 proper. (Hauser, Col.) What sounded like another drifting Mexican on 755a noted from 0632 to 0640 f/out 4/2. Typical Mex pgms and several mentions of Chihuahua but out before a definite ID hrd. (Kaskey, Cal.) (Don, the above, or are there 2 signals now here? Fin stay with 11-Ed.)
- 760 Cuba. CMCD Reloj Nacional, Havana hrd well during a RRU breakdown and KFMB looped until their 0400 s/off, thereafter CBGD in clear. (Wood, Ha.) Hrd at 0350 4/3; above item.
- 795 Costa Rica. Radio Centro, San José TIGPH-2 hrd for the first time with very long religious pgm until 2245, then pop mx and ID after every record. Ads for "Café Rey" who sponsored this long pgm. Hrd on Good Friday, 4/4. Carrier cut at 2259, no NA hrd. (Objio, D.R.)
- \*\* 800 Alaska. KINY Juneau hrd 0600 4/3 with a typical Alaskan combination of pops and pgms from Govt. departments. Seems to have gone AN. A good signal from a place which does not generally get out as well as Nome, Fairbanks or Anchorage. Good strength earlier from CPHR 600 was a pointer to this one; Iyongyang easily looped. (Wood, Honolulu, Hawaii)



- 810 Panamá. Circuito R.P.C. (Onda Popular, ROP-33), Bocas del Toro, with the results of a fight between a Venezuelan and a Panamanian hrd at 2312 3/30 and a new logging here. Followed by pop mx. Very good for a 1000 watt signal. (Objio, D.R.)
- 810 Uruguay. Radio El Espectador, CX-14, Montevideo hrd for a few minutes around 2026 4/4 with ads, for first time heard. (Objio)(Nice log-Ed.)
- 810 Colombia. (1) Per the ARC, Radio Sutatenza here (Bogotá, 810) transmitter to 250 kW, and Cali-700 (which César hrd testing, apparently) and Barranquilla-960 each to go to 125 kW. (2) Regarding the call letters, HJCY are the call letters here, and HJGY are those of Radio Magangué - 1550. Apparently an early type somewhere. Not known here if all 3 xtrs will carry simultaneous pgms or not; don't believe they will. (Ed.)
- 830+ Br. Hond. BHBS Belize with EE pops 2305 4/7, 2 µV strength, measured on 830.775. (Mayo, Maine)
- 850 Nicaragua. R. Continental, Managua YNAV IDing at 0023 and giving time as 11.28, hrd with pop mx for first time 4/5. (Objio, D.R.)
- 860 N.Z. IYZ Rotorua with a play, 0515 4/3. (Wood, Hawaii)
- \* 860 Panamá. Radio Reforma de Chitré now heard here. It seems this station is here and not as on 1233 kc. as mentioned in my last report. Hrd here 0030 on 3/30; no baseball but rather talking about a party. Perhaps the 1233 kc stn was a relay in a baseball network. (Objio, D.R.)
- 870 Puerto Rico. WROA Hato Rey with mx in EE, ID at 2030 4/4 (Objio, D.R.) (This stn one of the few PW's with a DA, null towards WFL, seldom hrd.)
- 890 Perú. Radio El Sol, Lima OBY4X with pop songs and ID after every record and with ads. Hrd 2040 4/4. (Objio, D.R.)
- 905 El Salvador. Sistema Radiópolis with light mx and ancmts 2335 4/1; ID in s/off ancmt 0016 (4/2) then, "Live for Life" theme on a marimba and off by 0019. (Hauser, Col.)
- 925 Costa Rica. TICM Radio Cadena Musical, San José with US-style rock show, to 2333 tune-out 4/1. (Hauser, Col.)
- 975 Costa Rica. TIHS Radio Atenea, San José hrd IDing at 0107 and requesting listeners to report to them with info on reception cx for their new SW xtr (6150 kc), hrd 4/5, they promise reply and pennant to all reporters. Perhaps reports for MW will also get one. (Objio, D.R.)
- 1030 México. Radio Centro with pop mx and ID 0046 giving time as 11.47, hrd 4/5. (Objio, D.R.)
- 1035 Mexico. Hauser's drifting Mexican (IDed as XEWS last week, to 1038 on 3/27-Ed.) noted with weak but audible signals 3/15 around 2130-2230. (Kaskey, Calif. who gave freq as 1035 as of his hearing them on 3/15)
- 1040 Cuba. Radio Mambi, La Onda de Setenta (wave of 70) hrd s/off at 0000 with NA, when carrier cut, heard Radio Caribe CMEN also IDing after news. R. Caribe s/off at 0003 to s/on at 0500 the same day (4/4). I did not hear the names of locations of the stations. (Objio, D.R.)
- 1050 China, P.R. Unknown location. Hrd 0600 4/8 with Mao talk in standard Chinese. (Wood, Hawaii) (Any / signals hrd on other freqs, Richard?)
- 1060 Chile. CB-106 Santiago, Radio Minería a beautiful signal 0530 4/7. Listed all freqs on MW, SW and FM and all affiliated stns. KPAY and CFCN looped out. (Wood, Hawaii)
- 1079 Morocco. Arabic chanting hrd 2105 4/8 easily readable even tho covered by an OC. Hrd in // to 935, 1052 etc. outlets. Does anyone know location or power? (Bugaj, Iceland)
- 1090 Colombia. In the item in the 4/5 section, after the words, "...never announces names" the words in parentheses should have been "(or call letters)" as César has called to my attention the difference between station names and call letters, which was not clear the way I had written the item. Incidentally, César wrote a very fine article on the topic, called "Station Names vs. Call Letters" (p. 2, June 3, 1967 DX News) explaining the fact that IA's do not use call letter in IDs, but

- 1090 (cont.) rather, use slogans in giving IDs and in receiving mail. I hope we can reprint articles like this, incidentally, now we're offset.)
- 1140 Chile. CB-114, Radio Corporación, Santiago very good indeed at 0530 4/7 with romantic mx, and new here. (Wood, Hawaii)
- 1155 El Salvador. Onda Orientales, YSCF San Miguel, with pgm "El Teléfono Musical del Aire" playing records requested by telephone to 6106 29 and ID quite clear at 2227. NO Chaparrastique or any other stn hrd here 4/3; first time hrd here. (Objio, D.R.)(See: MR 3/1, 3/8)
- 1180 Chile. CB-118 Radio Portales, Santiago for the 3rd of a nice trio, 0530 4/7. New, with frequent IDs simply as "Portales". (Wood, Hawaii)
- 1220 Cuba. NA hrd 0359 NM 4/7 u/OC; CMGF Périco listed. (Hauser, Col.)
- 1235 Bermuda. EBM-1 at 2215 4/7 reading 100 µV; as comparison, WEEI-590 read 1000 µV and WOR-710 read 500 µV on my SP-600JK-21. (Mayo, Maine)
- \*\* 1340 Colombia. Radio Olímpica IDed at 1916 with pop mx 4/5, this seems to be a new stn or a namechange, but even though they IDed after every record, no more details than this were given. (Objio, D.R.)
- \*\* 1370 Colombia. Radio Mundial, (La Dinámica) WJEX Bogotá, with pop mx and ID at 2300 4/5, a move from 1390. (Objio, D.R.)
- 1385 Haiti. (re: MR 3/15) Haitians never say the words "Papa Doc" on the air when speaking about him, they usually say "L'honorable François Duvalier, Président à vie de la République". Hi hi. (Objio, D.R.)
- \*\* 1410 Don. Rep. Radio Tricolor, Santo Domingo NIAE, hrd anong AM operation, this stn usually was on till about 0300. (Objio, D.R.)
- 1470 Japan. NHR-11 net with musical IS 0620 4/7 // 1480, etc. (Wood, Hawaii)
- 1500 Mexico. XERH ID in passing, YL vocal, 0026 4/1. (Hauser, Col.)
- 1515 Nicaragua/Colombia. To FOUNTAIN:(MR 3/22) - Are you sure your stn here was not Radio Pueblo, Santo Domingo? In case there is another one on this frequency, I am prevented from hearing it. On 1515 you mention the stn R. Progreso de Córdoba, WJGX but WJGX are not listed call letters in the '69 WRTVH. Or is this the Nicaraguan? As I understand it, there is no R. Progreso in Colombia. (Objio, D.R.) (Ed. note- the latest FBIS indicates YNCE, León, Nicaragua as 0.5 kW on 1515 kc, and slogan "Radio Progreso." The same FBIS shows WJGX-1040, Loricá, the slogan correct, power 1 kW, R. Progreso de Córdoba. This info identical to that in previous FBIS; possibly outdated by now.-Ed.)
- 1520 Colombia. Radio Minuto, Barranquilla WJLQ hrd with several IDs 0303-0315 4/7 with WKBW-KOMA off. QRM only from a weak unID domestic Eter. My first hi-band SA. (Russ Edmunds, N.J.)
- 1525 Don. Rep. Radio Meibá, WJJC Santiago ancg freq as 1550 but still hrd here. Address: Avenida Central (Villa Progreso), Apartado 46. They are sked 0700-0300 with 2000 watts, Owner is Julio Caballero & Director is Bery Rafael Collado. (Objio, D.R.)
- 1550 Phillipines. DYLA Cebu City at 0600 4/7 in its usual fantastic mixture of EE, SS and Cebuano, and as usual, better than VoA-1140 or any other S.E. Asia station. (Wood, Hawaii) (I know, it's Phillipines, hi-Ed.)
- 1594 unID. Bits and pieces of AFRTS "easy listening" pgms and "Myron J. Bennett women's pgm" thru somebody's omnipresent OC 2005-2100 4/8. I checked with our local AFRTS on 1484 to be sure my DX not playing any tricks. Greece and Libya listed. Cx were very good to Algeria in particular the last 2 nights. Any European members know who this could be? (Mike Bugaj, Iceland) (Mike, AFRTS-Tripoli (Wheelus AFB) has been reported on 1590, tho this could be in reality 1594. I had thought this one was to go silent soon, but it sounds like this is very likely. FBIS says 1594 is 10 watts, believe this is higher than that. Also says there are 2 AFRTS in Tripoli, with Wheelus AFB on 990 kc. Who knows?Ed)

EFRam GLPtZ join CPC!?

**Veries:**

- 881 ENGLAND. Veri/letter from P.E.F.A. West, Head of Engineering, South and West in appx 45 days. Returned tape of 2/24 and identified the program heard as "Good Morning, Wales." (Paul Kilroy, D.C.)
- 920 ALASKA. KSRM, Soldotna. Veri/letter with all details, mine was the first report from Hawaii with previous reports from California, v/s: A. Lee Millay, C.E. Soldotna is on the Kenai Peninsula, approximately 50 airmiles, altho 150 by road, from Anchorage. Mr. Millay says "It's a great place to live!" (Wood, Hawaii) (Note the correct spelling of this town, whatever it is. This time (remember rodetown?) your Editor did check a map...National Geographic Atlas plate 18 for July 1959, to be exact...and it clearly shows "Soldatna"...with two "a"s in the name...on the west coast of the Kenai peninsula, between Kenai and Naptowne. Richard's verie report shows it as "Soldotna" with 2 "o"s; obviously the town council up there should change the name to "Jonesburg" and have us Editors a lot of grief!! Hi hi - Ed.) (Also, NRC log shows Soldotna; assume this from FCC info so must be reasonably accurate spelling. Could KSRM be lost in Alaska??? Hi-Ed.)
- 920 MIDWAY ISLAND. KMTH sent a 2-page letter in 118 days with no f/up, v/s is: W. M. Mooty, Lt (jg), OIC. Gave all info except wattage. Believe this was a different v/s than Millar's veri. (Don Kaskey, Cal.)

**BACK of the FILE.**

Welcome to new NRC member and IDXD reporter Stan Mayo, of Portland, Maine who is DXing with a SP-600 JX '71 and sounds like a "technical DXer" in his reports. Hope to hear from you again...As the season ends, I'd like to personally express my thanks to all the great DXers who have supported the MR section so well. It's much appreciated by me, and my only regret is that we still seem to have a way to go before we can enlist the services of all DXers working for a common goal in a united club. But we're close! ...A new club is organizing for VHF enthusiasts, the Worldwide TV-FM DX Association, Box 5001, Milwaukee, Wisc. 53204. They will send anyone interested, a sample bulletin for 40¢. This was a free plug...Richard Wood's reports (This Week, Chileano, etc) make Your Editor dream wild thoughts of traveling to Hawaii. Right now, just leaving N.Y.C. would be a good thing. Unfortunately, Honolulu is the one place in the world with a spur problem worse than that existing in Manhattan...Mike Bugaj will be on leave and home in Conn., appx April 20 until May 15, his phone no. will be 346-0870. Mike says, "days are getting longer now, still light at 9:30 pm, and in 2 months you can forget about darkness (and BCB-DX, too)". Mike's reports have been a tremendous asset to IDXD, I feel...Back in the USA, the reason Don Kaskey's report was so delayed was that the P.O. "lost" it for 2 weeks. Unfortunately, our hobby depends in large measure upon the services of the Post Office, so I'll say naught more, hi...Corrections from last week's IDXD: the 1520 item belongs to Jim Renfrew; the 1595 item is radio Milagro, not as shown...the "revolt" on Montserrat may provide some DX from the West Indies, see IDXD-Features Section for the latest info on this situation...A reminder that Daylight Saving Time will bless us with it's presence in a couple more weeks (right after Tax Time, how about dat?) but-the NRC, as usual, will remain on "rock-solid EST" (see IDXD, page 1, Dec. 16, 1967)...I still owe you some comments on Noise Filters, and the Audio Matching article in 11110 permeating. Very good information on both the RFI filter and the Mechanical Filter topics may be found in the April 1969 issue of Electronics World magazine, in the special section on Filters. They cover it better than we could...as you can see, we keep a lot of material in our files... more later! Good DX **73, bob**

The following information concerning a fast-growing top English DX Club - the World DX Club - comes from our colleague Alan Thompson; in past months WDXC has done a lot to publicize the NRC and the Domestic Log throughout the world and their efforts are greatly appreciated!

**WORLD DX CLUB**

WDXC brings you Comment, Opinion, News, Tips, Articles, Chit-chat and Theory about MW, SW, FM, TV, and ham DX'ing in its monthly bulletin, CONTACT. Full of interesting and valuable information on all aspects of DX'ing, CONTACT is available to North American DX'ers for only \$3.50 a year, \$6.50 via airmail. If you'd like more information, contact WDXC's North American Representative, Bill Matthews, 222 Hodgson Ave., Houston, Pennsylvania, 15742.

**CONTACT****A FOXY IDEA**

Paul Kilroy asked for a re-run of the BBC mailing addresses. With the BBC Commissioner, or something, of the BBC allegedly threatening to cancel the various domestic services in England, it may well be timely to clean up any outstanding QSL problems. This material first appeared in DX News Nov. 26, 1966 and is reprinted from Dec. 12, 1966, IDXD:

- BBC London Home (908,1484) + 1214-647-1295 (now also 1291) for Broadcasting House, Portland Place, London W.1.
- BBC North (692) is: Broadcasting House, Piccadilly, London W.1.
- BBC West (1052,1457) is: Broadcasting House, Whitechapel Road, Clifton, Bristol 8, England.
- BBC Midland (1086) is: Broadcasting House, Carpenter Road, Edgbaston, Birmingham 15, England.
- BBC Northern Ireland (1340) is: Broadcasting House, Ravenhill, Belfast, Northern Ireland. (A separate country from England.)
- BBC Scottish (809) is: Broadcasting House, Queen Elizabeth Drive, Glasgow W.2, Scotland.
- BBC Welsh (881) is: Broadcasting House, Park Place, Cardiff, Wales.

# THE DX SHOWCASE



## Q. S. L. CARD

We thank you for and confirm the information set out in your Listener's Log of 15th April, 1968.

Office, Studios and Control Room at BROADCAST HOUSE, QUADRANT, LAUNCESTON, TASMANIA

T.L.A. transmits on 1380 K.C. - 273 M. with an aerial power of 200 Watts from remotely controlled transmitters 6 miles from Launceston at Carrisbon on the west bank of the Tassar River.

P.P.P. 10000

WOLLONGONG BROADCASTING PTY. LTD. are pleased to verify and thank you for your report on the transmission of

Commercial Radio Station

2000 WATTS

# 2WL

210 METRES

WOLLONGONG, N.S.W. AUSTRALIA

1430 KHZ.

OFFICES & STUDIOS: Cnr. Edward and Church Streets Wollongong and Junction Street, Nowra N.S.W.

TRANSMITTING FROM WENDANG

10 Miles south from Wollongong

Above - a couple of Richard Wood's recent Australian loggings... Next page - a prize from Foxy's collection...

# Radio Montserrat

(Owned and operated by the Government of Montserrat)

Frequency: 1550 Kilocycles

Cable Address: RADMON MONTSEERRAT

P. O. Box 201

Plymouth,

Montserrat, B.W.I

15th April, 1958.

Dear Mr. *Frank*

The Committee of Radio Montserrat wish to thank you for sending us your reception report. We feel very gratified to know that our station is reaching as far as the U.S.A. and Canada, and we would like to take this opportunity of thanking you for taking the trouble to let us know how reception was in your locality.

Our transmitter is a very modified R.C.A. 4336 with a carrier output of just over 200 Watts. The output is fed via 300 feet of co-axial cable to an 85 feet steel tower, with associated tuning and ground system of 21 radials each of 150 feet. The entire antenna system, as well as the studio design, was all locally undertaken and erected. The Studios of Radio Montserrat are located at the Botanical Gardens, approximately one mile north of the town of Plymouth.

This letter will certify that you have received Radio Montserrat on the night of March 9th - 10th between the hours of 7.00 and 9.00 G.M.T. on a frequency of 1,550 kilocycles.

We thank you for your kind cooperation, and look forward to hearing from you again.

Yours sincerely,

*P.S. Delay is regretted*

*H.A. Pierson-Barby*  
H.A. Pierson-Barby,  
Engineer.





# DOMESTIC DX Digest

Randall Kane  
37 Myrtle Ave.  
Winthrop, Mass 02152

## domestic contest standings

Don Kaskey, Hotel El Rancho, PO Box 235, West Sacramento, Cal 95691.

1 Stewart Drake, Pa	610	20 Gene DeLorenzo, Mass	293
2 Frank Waldron, NJ	534	21 Richard Eddie, Mo	292
3 John Javetski, NY	497	22 Frank Wheeler, Pa	271
4 Bob Shaw, Ohio	486	23 Jerry Conrad, Fla	259
5 Bill Nittler, Colo	475	24 Gene Mattocks, Cal	250
6 Dave Fischer, Neb	440	25 Wayne Heinen, NY	241
Duane Glese, Mo	427	26 John Gifford, Ill	229
Don Kaskey, Cal	427	27 Fred Nordquist, NY	218
8 Dave Carlson, Mo	424	28 Shuck Hutton, Ga	204
9 Joe Fela, NJ	402	29 Fr. Jack Pejza, Cal	203
10 Marc DeLorenzo, Mass	372	30 Walter LaRoche, Pa	191
11 Randy Kane, Mass	361	31 Dave Prather, Cal	176
12 George Sherman, Minn	360	32 Bob Pietsch, Cal	168
13 Don Erickson, Cal	355	33 Dennis Vroom, Cal	137
14 Clarence Freeman, Cal	340	34 Larry Van Horn, Tex	116
15 Glenn Hauser, Colo	338	35 Robert Schneider, Wis	115
16 Ken Lyon, NY	336	36 Paul Kilroy, DC	104
17 Dave Kulka, Cal	330	37 Bill Ochs, Me	38
18 Dave Allaway, NY	324	38 Bill Block, Oreg	0
19 Mike Northam, Oreg	316	Lynn Brooks, Okla	0
		Bob Jacoby, Cal	0

**THERE IS STILL TIME LEFT TO MAKE YOUR MARK IN THIS GREAT DOMESTIC CONTEST. PLEASE, WHILE DXING, MAKE A NOTE AND SEND YOUR CATCHES INTO DDXD!**

**Regular checks heard in March:** KARR KDXU KGLO KGMO KIML KLPW KPLC KQIK KVIO KWLA WBBQ WCAZ WDIC WELI WJFC WKID WPTS WTYN WVMT WVNJ.

**Once upon a time** there was a strange family that kept changing around its unlisted telephone numbers as a diversionary tactic to confuse the nonetheless uncaring DX World. The current unlisted number at which you can deposit your DX until about 1600 EST Monday is (617) 846-2547, good infinitely (or at least until September).

**Would you believe** (notice how both of these items begin with odious clichés) there are more than 1400 stations broadcasting Country and Western music regularly- 450 of them exclusively? So says the New York Times. "While sophistication has crept in, the messages on older stations like KXEL continue to be simple and comfortable for listeners in a world bombarded by complexity." True, there's no accounting for musical tastes: this news is music to some DXers' ears, while to others of us it's barely fit to print.

**The updated version** of the NRC Log is now being distributed to the volunteer keypunchers. **Important:** You must keep track of new information, and add it to your chunk of log, as it appears in DDXD and Ernie's "AN Situation" and Cooper-Trent sections. If it appears after you punch a card, Lon Berman will make the correction.

550 WHLM-Pa	S/off w/Lord's Prayer, male vocal 0000 4/7. (Edmunds)
WDEV-Vt	S/off 0003 4/7. (Russ Edmunds, Hawthorne, NJ)
unID	Jazz org 2350-0010+ 4/7 u/CPMB. (RJE)
580 unID	S/off Lord's Prayer 0013 4/7. (Edmunds, NJ)
750 unID	TT 4/1 0214-0228 u/WBS, no ID a tall. (Pejza, Cal)
850 CKVL-Cou	0504 4/7 PP, folk songs & informal duets. (Hauser, Colo)
940 KIOA-Iowa	ET/OC 0230-0345+ 4/1. (Jerry Starr, Youngstown, Ohio)
990 KTKT-Ariz	ET 4/7 0335-0345. (Glenn Hauser, Lowry AFB, Colo)
+ WHOO-Fla	3/24 Kx/TT/e:0136-0221/off &to RS:0600 he said so.-(#HOT /AN,as LOG.) (Ralphie Johanns, Buffalo, NY)
1000 KHLC-Cal	DX not hrd u/KONO OC MM 4/7. (Father Jack Pejza, Cal)
KTOX-Okla	Weak but all alone 4/7 w/GM mx 0400-0500. (Kaskey)
unID	TT verry poor briefly 0540 4/7. (Pejza, Cal)
+1060 KPAY-Cal	Ban AN WH 4/7 for "Frost Alert Warnings" in Chico area. (Kaskey, Cal) Supposed to be off but on 0525 4/7, along w/Holly Dolliday on CPCH. (Pejza) Pardon my corruption, Father. (sk)
+1070 CHOK-Ont	Wk/off:0110 & RS rtn:0600(3/27) (Ralphie)
1110 WBT-NC	Beneath strong KPAB 4/7 w/nx & ID 0605. (Kaskey, Cal)
1210 unID	WADE-NC tentative; no IDs hrd, just TT, about 1 kc, 0104 4/7 & later. (Hauser, Colo)
1220 KPSC-Colo	Item of mine in 3/29 DDXD is, of course, incorrect. It was CHOC on 3/17, only a partial ID taped; also another HRCer had said it was KPSC. Sorry! (Starr, Ohio) Your credibility is upheld, Jerry. At least you use a tape recorder...many a DXer and editor has found out the hard way that the human ear is a very fallible source of information, especially when aided by the human imagination. No implication at all, because not all DXers are as careful as you or I. (sk) Too late, but FYI, Richard Wood has asked them to be on after 0500 too (4/14), after his locals are off; may or may not comply. (Hauser, Colo) Interference by DXers with the scheduling and programming of a station? Let us hear no more of this insidious proposal! (sk)
unID	OC has been noted for many wks at night; seems to be KNE/SSW. (Hauser, Colo)
+1230 WBOU-Ind	P/c-TT 0140-0143 4/7, anncts every st.; not listed. (S)
WREB-Ill	On top 4/3 0140 "adult mx". (Carla Lucas, Fairfield, Conn)
WUZE-Ohio	S/off 044 4/7 to return "soon", usually 4/3 0140
+1240 WSHY-NY	On top 4/3 0145, RR. (Lucas, Conn) had to ZPP:0140-0149 :back 4/4; V/1 by CE:NSP,ox:pop-Luc (Bill) Duboy (sk)
1250 KPKU-Kans	0104 4/7 co-ID w/RRW, s/off for maintenance; x at Grantville (S), or an mx, choral, finally off at 0114
1290 KTRN-Tex	Aton 4/7 w/RRW, sports 0610. (Kaskey, Cal)
1300 WKOY-Va	Noted ET/TT 0140-0145+ 3/28, nearly 0130 V/1. (Blair)
1310 WIFE-Ind	u/strong WRR 4/7 w/ID following mx at 0400. (Kaskey)
WRR-Texas	MoR mx 4/7 0505. (Father Jack)
1320 WVOJ-Fla	O/u WJA: 4/7 0242-0255. (Edmunds, NJ)
1350 WREY-Fla	O/u WJA: 4/7 0242-0255. (Edmunds)
1390 unID	Relig prog also KCBC at 0309 4/7 but had s/off by 0313
1430 CKFH-Ont	On top 0130-0140 4/7. (RJE)
1450 KZIN-Cal	Concluded lengthy ET 4/7 at 0447 to return 0840, played jazz mostly & one anner sounded rather stoned by the time they s/off. (Kaskey, who should talk) I do always sound like that. (sk)

1460 WBNS-Ohio TT/c:4/7, 0303-0325:ID & KSO:also TT/Mx/c, ID'd:0325 & cont'd its test(BOTH:0303 on-air (Ralphie) 0450 4/7 ID during OC, SP as listed. (Hauser, Colo) Had ET/TT-mx most all AM 4/7. (Starr, Ohio)  
 WACO-Tex AN 3/31, NRC Log says 0100 s/off. (Starr) S/off reported as 0300. (Lk)  
 1470 KAPS-Wash BT 4/7 w/ID at 0337, RR; then KXOA HT. (Kaskey, Cal)  
 1480 WLEE-Va In-out w/WISM-WRDM to 0300 4/7, alone after. (Edmunds)  
 1490 KAIR-Ariz 0413 4/7, ID after KBOL DX. (Hauser)  
 KBOL-Colo DX appeared w/me on tape, IDs, TCS, "secret words". (Hauser) Not hrd due to local KDS. Perhaps very weak 0430-0445 4/7, but nothing identifiable. (Pejsa, Cal)  
 S/off 0008 3/31 w/Lord's Prayer sung, anncts, into SSB. (Lucas, Connecticut)  
 WENJ-NH RS at 0130 3/29, only stn IDable; new for me. (Lucas)  
 WBTA-NY ET/TT noted 0127-0135+ 4/7. (Starr, Ohio)  
 WBOB-Pa Very powerfrul 0221-0233 4/2, quickly gone. "Easy" mx.  
 WVBC-Va P/c 4/7 0315-0330 using code IDs & voice ID at finish.  
 KVAC-Wash TT out thru well but final ID very difficult due to KDB. Thought this was KDBM until mbn informed me (bless him). (Kaskey, Cal) Now that's unlikely! (Lk)  
 CHYM-Ont In o/u all sorts of things 4/7 0105. (Edmunds, NJ)  
 unID "Washington Capital wx" or suchlike 0107 4/7. WQVA, WAYB should be off; WVEB isn't too close to DC. Help? (RJE)  
 1520 KOMA-Okla In well 4/7 0215-0230 after WKBW s/off. (Edmunds, NJ)  
 1530 KPFB-Cal RS(rel'gs), 4/7 hrd:0327-0359 s/off & 0400/off (RMJ)  
 WCKY-Ohio 4/7 w/Farm Report 0455. (Pejsa, Cal)  
 #1540 KBUY-Tex Was AN 4/7 0215-0330 when disappeared w/Opera mx, no IDs  
 1550 unID Hrd 4/7 0215-0330 when disappeared w/Opera mx, no IDs whenever I could hear them. (Edmunds, NJ) KKHI s/off 0300, LFRYs at 0100. 4QD is a distinct possibility, time & format check. Incidentally, the strong OC AN here is CBAG/CBPE. (Lk)  
 1560 WDXR-Ky 0053-0100 4/7 w/WQXR off. (Edmunds)  
 WGLB-Wis Strong w/TT 0202-0230 3/29 w/lots of IDs. This was an NRC DX Test, arranged by Roger Winsor, but info not sent by stn in time. (Starr, Ohio)  
 #1570 WFSF-Fla Verie says f/c 3rd Wed 0215-0230 w/DT & IDs every 2 min.  
 CPOR-Ont On past listed s/off w/OSW 4/7 0211. (RJE)  
 +1590 WBY-Conn Off already by 0050 4/7. (Edmunds, NJ)  
 WCBG-Pa ET/TT 0215-0330+ 3/26, covering WAKR well. (Starr) TT/c with 5Kw:3/26 0220-0300etc:3/26 (Johanns, NY)  
 1600 WAAM-Mich had Xr/TT/c:0200/ete:3/22 (Ralphie)  
 #1600 WHBT-Tenn (per v/1):CR of Parkway Bg Co Inc says:4/23 TEST for 0430-0445 scheduled. -I hrd:TT/c:3/22, 0206-0226 &:3/26 0132-0150. - (Johanns)  
 CJRN-Ont Very good thru WHL 4/7 0035-50. MX SP is 0200-? (RJE)  
 No sé; quizá NRP. Ralphie- ayúdenos! (Lk)

**A DX Dream, II**



You know it won't happen yet  
 but you hope the sunspots will go away  
 and the horizon will again back off  
 You hope the millions of never-ending kilowatts  
 will pull the plug again at midnight - that will never happen!  
 you gaze at equipment just beyond your grasp  
 and your mind fills  
 with the South Pacific "loud and clear, every night."

**sunrise and daytime**

900 KBIF-Cal S/on 4/8 at 0931, took over from KGRB. (Kaskey, Cal)  
 KGRB-Cal S/on 0930 4/8 w/very brief anncts, nx. (DKK)  
 950 KATH-Idaho dominating w/up-tempo C&W 4/8 0315-0915 when KAHI s/on.  
 KYES-Oreg Aton at 0923 4/8 w/KAHI completely nulled. (Kaskey) ~~WAAAA~~  
 970 KVEG-Nev Nice signal u/KBEE OC 0853-0900 4/8; C&W. (DKK)  
 1030 KCTA-Tex SM 4/6 noted much before sunrise at 0510 w/SS pgm, ID 0531. What gives? (Hauser, Colo) I'd say perhaps they could s/on at Boston SR, except it's an hour before SR here! (Lk)  
 1090 WBAL-Md 0551 4/7 ID in passing, then u/OC. (Hauser)  
 1320 WCPH-Tenn 0600 HA, 0601 s/on by southern gentleman. (Hauser, Colo)  
 +1260 WIKY-Ohio (AN) hrd MM/s-on:SSB @:0527 1/2 (3/17) (Ralphie)  
 1590 WAMA-Mis 3/23 s/on:ment'd:W.Allis & Elm Grove (Johanns, NY)  
 1600 WRPC-NC RS/s/on:SSB @:0530, using PSA 500w, on:3/25 (RMJ)  
 WHLL-NVa hrd RS(in-progress then):0632-0650, on:3/26 (Ralphie)

**sunset and evening**

510 WDMV-Md Hrd 4/7 1830-1845 s/off. (Edmunds, NJ)  
 920 WTEM-NJ First time u/WJAR-WKRT at 1901 4/4. (Lucas, Conn)  
 1050 KOR-Creg Copied 4/6 2130-2200 s/off, nicely aton after KBLE s/off 2155. (Kaskey, Cal)  
 1250 KVEL-Utah no KICH, 4/6 2020, 2030 ID in Mrs. Robinson. (Hauser)  
 Her again? (Lk) (Lucas)  
 1370 WWHI-Md Way on ton at s/off 1845 4/3. Directional this way?  
 1380 CKPC-Ont Hrd 4/7 1850 thru WAWZ. (RJE)  
 1540 WPTS-Pa 1841-1844 4/10 s/off o/u CHIN/WPTR but s/off faded in very clearly, no SSB. (Charles Mohr, White Plains, NY)  
 Welcome, Charles! (Lk)  
 1580 WJVA-Ind o/USRF after WVKO s/off 1915-1923 4/3. (Lucas, Conn)

**schedules and other info**

+ 550 KTSA-Tex SP is MM 0100-0630, per stn. (Paul Hart, Texas) In:AN with ME/off:0100-0630; Eisenhauer Rd in addr. - (HHJ)  
 + 560 CP-IFX Granted WCKL, Catskill. (Edmunds)  
 + 600 KOGO-Cal Now AN, SP ME 0130-0830 per San Diego Evening Tribune  
 920 KPRP-Iowa FCC granted request for 90 day extension from 4/7 for mination date, so looks like a delay for 7/6. (Jd)  
 #1050 WSEN-NY CP for 1000 D1. (Edmunds, NJ)  
 #1070 KFDI-Ians Is this 10/10 or 10/12 (RJE) Good question, I'd think.  
 #1130 CP-Fla Barstov, just granted 3:UL. (Edmunds)  
 #1200 WVAL-Tex is AN with ME/off:0100/or 0130-0630 (Edmunds)  
 #1230 WBS-NY To join actual net for nx on the half hour as of 4/7. (Mohr, NY)  
 1250 KTCN-Colo Last full day on air was 3/26, someone in have lost their license. (Hauser, Colo)  
 #1290 WPDG-Ia (3/26):Wk s/off:0104 to rtn RS @:0530 (RMJ)  
 #1450 KRIA-Ariz CP for 1000/250 SH1. (Edmunds, NJ)  
 #1490 KDB-Cal Apparently NRP. (Pejsa, Cal)  
 + CBAM-NH In 100/100 W1. (Edmunds)  
 +1510 CP-Mo Marshfield, 250 D1. (RJE)  
 +1550 KEDD-Kans How addr is Box 1206, per verie. (")  
 +1580 WPAZ-NY Granted 250 D1, a la WTHE, a reduction in power to get D1 again. (Edmunds)  
 +1590 WVNA-Ala (V/1 by:K.Lyon)Skd:Wk:0529-0000, Sun:0529-2300. (Ralphie)  
 +1600 WAAM-Mich Is NOT/AN, IDr/s/on:0600 (Johanns, NY)

Don't Let Me Down!  
 73, 1/24

## UNRESTRICTED RADIATION

Gordon P. Nelson

Faced with sunspots, aurora, and generally poor long distance MW conditions, about now even the most fanatic BCB enthusiast usually begins to feel the urge to give it up for the summer. But if you're really hooked and just have to make a new logging from time-to-time, even during the summer of 1969, perhaps there's a whole class of rare MW catches you've overlooked - the "carrier current" stations.

These stations are operated by various colleges and universities and are usually called "carrier current" or "restricted radiation" stations. These operations - not to be confused with ordinary illegal "bootleg" stations - are meant to provide local MW service to college dormitories and living areas and usually receive support and facilities from the schools themselves. Most of these stations operate on the bottom half of the band (560, 640, and 650 being perennial favorites) and are usually audible only during the daytime when more distant stations are still wiped out by daytime absorption. During the present spell of extremely high auroral activity some of these stations will also make it through at night while the regular occupants of the channel are blanked out by the aurora, too.

Regardless of what they may try to tell you when you contact one of these stations, they are not licensed or registered with the FCC. While there are literally hundreds of these stations scattered around the country, you'll almost inevitably be simply told, "there's no such station licensed for operation" if you try to get information about one of these stations from the FCC. While some of these stations have highly sophisticated studios and facilities, they're only supposed to cover the immediate area and operate by virtue of the "fleapower" provision of the FCC's Part 15 - the same loophole that permits the use of unlicensed CB transceivers over short ranges. Since these restricted radiation stations are not supposed to be audible at any distance from the buildings being served, FCC field offices usually aren't aware that they even exist.

A typical carrier current station will use a transmitter capable of developing up to 50 watts on the broadcast band - but intentionally mismatched into a very poor antenna designed to "restrict the radiation" and thus prevent the station from running afoul of Part 15. Call letters are usually chosen by the station to provide handy slogans - regardless of whether or not the FCC has granted the same call for use elsewhere! Around Boston, for example, we've got WVBC ("Voice of Boston College"), WHBS ("Harvard Business School"), WBS ("Wellesley Broadcasting Service"), etc. Many of these stations use high quality audio and studio equipment and usually have crystal controlled transmitters (but the crystals aren't usually temperature controlled so carrier drifts of a few hundred cycles are common). Several companies manufacture high quality transmitters for carrier current application and the audio quality is usually very good - in contrast to most bootleg operations.

The schools that set up these stations are faced with a very difficult engineering problem: while the signal strength has to be quite strong in the buildings of interest in order to overcome the electrical interference produced by florescent lights and other devices, the radiation must be kept to a very low level on the outside if the station is to remain legal under the provisions of Part 15 (see Appendix for values).

If the station is well-designed and is operating legally, the signal should fall to inaudibility (i.e., to the atmospheric noise level) in a fraction of a mile. In order to provide strong signals inside the buildings with a minimum of external radiation, many of these stations feed their RF signals directly into the college phone or power lines instead of to a conventional antenna.

Use of power or phone lines (especially when the college has its own systems) to restrict radiation usually is quite effective although static levels inside the buildings can sometimes provide severe QRM. But sometimes even a carefully designed system can begin to radiate large amounts of signal - thus letting the DX'er have a chance at some very rare DX. WVBC at Boston College never got more than a couple of blocks until a Telephone Company workman accidentally tied the internal college phone lines into the Bell System lines; with every phone line in Boston acting as an antenna, WVBC's signal suddenly covered about half of the state.

With the advent of the SCR light dimmer (which will probably go down in MW DX history as the most disastrous innovation since the all-nighter), the static level in many buildings has greatly risen in the last few years; as a result, stations that've been free of static in the past have been forced to experiment with higher powers and more efficient antennas in order to provide satisfactory coverage on campus. WXPB, the University of Pennsylvania's carrier current station, recently decided to try out a ionwire to boost the signal of their 25 watt transmitter on 731 kHz. This definitely improved their signal on the Penn campus - but it also added New Jersey, New York, and Massachusetts to their coverage area! Needless to say, that antenna design was scrapped once they discovered how much it radiated.

In schools with dormitories and other living groups scattered over a wide area, stations often use a number of small transmitters located in each building and fed audio from a central studio by means of audio lines. These multiple installations almost inevitably use crystal controlled transmitters all operating on (about) the same frequency and usually accomplish their goal of good local reception without external radiation quite well. From time-to-time, however, residents of one of the buildings will decide to install a better antenna without bothering to tell the station engineers - and these modified installations often radiate enough signal to be audible at great distances. The signals from these multiple installations - when they do get out - usually feature a characteristic low-pitched "growl" caused by the heterodyning of many carriers on slightly different frequencies.

The first problem facing the DX'er when he manages to log one of these stations is identification. The only comprehensive listing of these stations is the tabulation of "College or University Campus-Limited Radio Stations" in the back of the Broadcasting Yearbook. Unfortunately no frequencies are given and the list is quite incomplete; only about half the stations in the Greater Boston area are shown for example. If you can get the call letters of the station and have a rough idea of its location (many of these outlets identify only with call letters) you can often track the station down with the aid of the telephone information operator who'll usually be willing to give a list of local colleges and universities in her area.

Once you've tracked down the location of the station the fun really begins trying to get a QSL. Station personnel are usually very aware of the seriousness of over-radiation and a call or letter from a "distant" listener (even a few miles away) often produces consternation and panic at the station - often the final reaction is to shut down completely. Consequently getting one of these stations to verify requires a very delicate touch; ordinary reception reports are almost never answered or even acknowledged.

It's usually necessary to visit or at least phone the station operator as a starter. Stress the fact that you're a DX'er and not just a casual listener; explaining that you heard them on equipment used specifically for the reception of weak and distant MW signals usually tends to relax the atmosphere a bit. The more sophisticated your equipment the less alarmed the station personnel will usually be - but in almost every case the engineers will assume that over radiation is

indeed taking place. Take care to explain to the station that many other carrier current stations have had this same trouble and reassure them that you're not connected with the FCC. Be sure to mention any other carrier current stations that you might have logged and it's always a big help to have some other carrier current QSL's to show.

Be frank and open about the problem of over-radiation and volunteer to provide comparative signal strength reports when the station takes steps to try to limit their radiation - which they'll almost inevitably do. If the station is using a number of parallel transmitters and it appears that only one is over-radiating, volunteer to listen as the station takes the units off the air one at a time in an attempt to track down the culprit. The more helpful you are to the station the more likely you'll be to get a QSL - this based on our experiences with the stations audible here in the Boston area.

The station will naturally be very reluctant to provide documentary evidence of over-radiation unless they're convinced that it won't find its way to the FCC. Unless the station personnel are more casual than they ought to be, don't expect more than an illegible signature scribbled on a prepared card. Talking a distant carrier current station out of a specific QSL letter on a station letterhead is perhaps the highest accomplishment in the verification extractor's art!

\* \* \* \* \*

APPENDIX. Part 15.202 of the FCC regulations deals with the legal limits for "incidental radiation" and, in addition to the familiar 100 milliwatt limit used for CB equipment, provides an additional criterion more applicable to carrier current stations. The field strength, in microvolts per meter, as measured 100 feet from the station cannot exceed

$$\frac{24,000}{\text{frequency in kHz}} \text{ microvolts per meter}$$

For a station on 640 kHz this works out to a value of about 38 microvolts/meter at 100 feet; by way of contrast, the signal put out by a powerful commercial station can be more than a million times as powerful at the same distance! How far the station will actually carry depends upon a number of factors such as ground conductivity and, most importantly, the background noise level at the receiver. In an area with absolutely no electrical interference the background noise level is solely produced in the atmosphere and amounts to about 1 microvolt per meter on 640; given average ground conductivity the 640 signal will travel a bit over one mile before it falls to the background noise level. In a typical city the background noise level is determined by the accumulated electrical interference from appliances, etc., and is many times higher than the atmospheric noise level; as a result the typical legal carrier current signal will be audible for only a few blocks before it's overcome by the local noise. Unless you're in an extremely quiet locality and have an extremely sensitive receiver, reception further than about 1 mile can be taken as a pretty good indication that the station is radiating more than allowed under part 15. Here in the Boston area we've got at least 11 of these stations and all but two of them are known to have over-radiated at one time or another during the past 5 years - usually after modifications had been made.

RICH EDDIE - 152 West Ross - Webster Groves, Missouri - 63119  
Hi gang! Per my WDWS info in 3/29 DX NEWS the time of the r/c is 1:36-1:46am tune-in/tune-out on fourth Thursday. They'll be checking this month. Now to DX. MM 3/17- WTOP-1500 w/all-NX 3:15am for first DC station. Sat. 3/22- CFCN-1060 for province #5 @ lan, KAWA-1010 s/off 7:30pm, KIND-1010 s/off 7:30pm, KDJW (ex-KVII) ID @ 7:45. KRVN also heard at this time. MM 3/24- KMAM-1530 TEST in good. 3/26- XEMR-1140 @ 11:45pm instead of usual WAVA, must have been Aurora. Sat. 3/29- Thanks to a tip from Roger Winsor relayed by Bruce Reynolds, WGLB-1580 on w/ET & DX TEST 2:11-2:50am s/off. 3/30- KTHT-790 12:49-1:10am, no WAKY pest, KVKM-1330 1:30-1:40 tune-in/tune-out w/f/c not on list, KELI-1430 1:55-2:05am, WIL off. KTMN-1530 s/off 7:15pm. MM 3/31- Unn WFLI-1070 on ET 1:15-1:45, WABB-1480 2:07-2:30am w/rr & KUDL-1380 on w/ET 2:37-3, much wanted here. 4/1- KNED-1150 noted testing 2:15, unn. 4/3- WPAD-1450 w/r/c 1:01-1:15. Sat. 4/5- KTOP-1490 @ 2:30am w/ID. Verles: v/1 & CM KBTC-1250, v/1-CM-v/q WAKE-1500, said I am farthest to report them on RS (Hi, R. Winsor), v/1-CM KNDY-1570, CM-v/r KFMJ-1050, v/1 WBBN-1690, v/1 & road map-CM KWFA-1500, v/1 KMAM-TEST v/1-CM KICX-1360 & KANA-1010, v/q- WTOP-1500 CFCN-1060, province #5 verified, KTSA-550. Totals now 643/300 4/38 5/5 11/6 but by time you read hopefully it will change. What does Washington D.C. count as in totals? Also, does CFSL-1190 carry a phone-in show around 1:15-2:10am? I must be near 30 lines, but I must go over just this once - WIL was off SM 3/30, Wed. 4/2 & Thurs. 4/3 in addition to MM 3/31 to install new equipment so if you didn't hear them that is why. Last minute DX: MM 4/7- Only WGNU-920 on ET from 1:37-1:45, off by 2:00, NSP TT noted on 1210, 1:02-1:10 tune-out, 1:45-2 tune-out, was this WADE? Well, I got to run now so good DX to all & 73s. I hope to see you at the NRC Convention in ST. LOUIS over the Labor Day weekend. 73s.

RUSS EDMUNDS - Box 291 - Hawthorne, New Jersey - 07507  
The weekend of 4/5 finally brought some creativity, hi. Since my first visit to Dave Roys' place, I'd been putting off building a new antenna tuner, as I was impressed with his; so finally the trimmer in my HQ-100 died, so necessity became the mother of creativity or some such. Anyway, I can peak an additional two S Units w/the new tuner o/the old external I had in addition to the internal. So, between that & the external Q-mult, 3-units are now utterly meaningless, since the meter zeroing is fouled up too. Such is life. I had to try the new thing on MM 4/7, so here's DX: Midnight: CFNE-510 after WHLM s/off; WDEW-510 s/off 12:00; unID BB too on 550, sounded like Colombian or Mexican format, but no ID; unID jazz program 11:50-12:10 etc. (also 550) none of above. 12:13, Lord's Prayer s/off on WIO, who? 12:20, WMAL-630; 12:40 CJRN-1600 u/WWRL; 12:50 WDXR-1500; 1:00, CHYM-1400; 1:00, unID w/Washington Capitol WX, but WQVA, WAYB should be off by then & WVIC isn't too close to D.C. if memory serves, so who? (WTOP-1500 -KRC) 1:20, WITM-1400, WJOP 1480 @ 1:22; WRDW-1480 @ 1:27; WMBD-1470 @ 1:30; CKFH-1410 @ 1:30, WQZY-1460 u/WBIAH @ 2; 2:13-3:30 (on/off) weak unID opera on 1550, LPRT who newies? Brought ROMA 1520 w/WKEW off. Also a weak tester, unID. 2:46, WVOJ-1330 on just listed s/off; WJAS-1320 " 2:50 w/test; 3:10, a clear ID from HJLQ R. Minute 15 w/NOMA off (1.0 kw) Barranquilla. Something w/Tax Info on 650 3:20, but soon faded. WSM should've been off, but announcer sounded like Tenn. accent. Finally a very weak religious program on 1630 @ 3:32, but no ID, probably WBY. Total now 370 here 621 total in NJ. 4/7- SSS, 6:30-6:45, WDMV-540; 6:50, CRIM-1400 u/WAWZ. 1/10 unID. 4:54, WYNS-1150 u/slop. DX evening 4/8 was bad, so I fixed my borrowed recent-er. Now if I could find the 3.75 ips spindle for it. I have heard HB on 010 last two nights but can't get ID as to Colombian hi-power job or WBYW. Both needed. I kinda hope it's Colombia so it'll bomb out WGY so's I can report it. RUC, unID YVQO verie a tape report? (Hah, Russ, I don't have one of those new tangled tape machines, hi -ERC) Something tells me I'll need some place in western Pa. or Ohio to stop over on way to Convention - any offers, hi? 73s. (How about the Pittsburgh??)

ONE MORE OF THE WEEKLY ISSUES, THEN WE SKIP A WEEK AND COME BACK REGULARLY STARTING IN MAY 10. LET'S KEEP MUSING THROUGHOUT THE SUMMER, GANG! DONATE YOUR DAY IN BOSTON



April 19, 1969

DON KENNEY - Hotel El Rancho - Box 235 - West Sacramento, California - 95691  
 DX CX remain very poor here. 3/24 was bad enough w/North & East blocked but at least Hawaii & the South were in OK. On 3/31 I experienced probably the worst DX CX I can remember. There seemed to be a complete lack of sky-wave anywhere. Going over the entire spectrum of the band there were only about 15 to 20 signals readable and all except KSL were no doubt ground-wave. At 3:15am EST the only audible signal between 1320-1600k was local KFBC. Whatever was going on upstairs must have been a dilly! Only six reports mailed in March & none recently. Veries in from KODL-1440 KBAN-1410 KBIG-740 KXLE-1240 KBLW-1390 KOHO-1170 WISM-1450 & KFML-1390, all v/l except the standard Hawaii v/q from KOHO who noted I heard them when they were using only 2.2kw due to XR problems. Dave Prather & I enjoyed visits last Saturday (3/29) from both Don Kenney & Gene Allen at ERBA HQ. Gene has almost everything verified (sigh). Richard Wood, there is no such thing as an easy New Englander from the WC (not even WBZ any more). Hopefully April will be more fruitful than February & March. 73.

ROY H. MILLAR - Box 851 - Everett, Washington - 98201

Hello! New loggings since 3/1- 3/16- KFML-1390-TEST IDs on ET heard three times between 4:15-4:30 as I struggled to null local KRKO-1380; I guess I was lucky to log KFML at all, & 'twas a welcome catch as most distant 1390 logging since moving up here into KRKO "NSP" country. 4/3- KWSU-1250 Pullman, Was. (ex-KWSC) ID 10pm as soon as local KTW left the air. 4/5- KUDY-1280 Spokane, s/on 9:01am on my 100th or so try at them; KIT was effectively nulled, but for the first time KUDY made it over not so nulled KERG/CIRQU! Veries: KGYN-1210 ZBVI-780 KBFV-930 KFML-1390 & ORF-1025. I got the two new countries verified, i.e.: British Virgin Islands & Austria! The above loggings of KWSU & KUDY really prompted this Musing, for, to the best of my knowledge I am now 100% logged as to "on the air" stations in Wash. State! As I type this I'm listening to 800k, & find KPDQ, Portland, atop, so the new CP for Burien, Wash. obviously is not yet on the air. Total logged in the state now stands at 133, w/117 verified. Right currently "on the air" are as yet unverified, although all have been reported to, being: KDAC-1490 KYAC-1460 KPUL-1150 KREN-1420 KWSU-1250 KURB-1510 KUDY-1280 & KGAR-1550. Closest unlogged stations remain a couple of the NW Oregonians, KRKY-1180 & KACI-1300, both around 180 miles, & only unlogged under 200 miles (not counting Canadian LPRTs). 73.

DICK TRUAX - 3472 Dixiana Drive - Lexington, Kentucky

As per last week's Muser, the bootlegger on 1610 still is on. As this is being sent WSIN in Cincinnati is programming Seattle mx & giving phone number for dedications. I called them long distance & was informed they're running 50w. By way of Ron Hays I learned that Jim Hall in Louisville is also hearing them well. Should be an easy catch for Mid-Westerners if the FCC hasn't caught them by the time this is in print. Down to more conventional catches: MM 3/31: WDCJ-1220 Fla. ET/mx @ 1:45am till 2. On 1600, KBBB Tex. was on ET @ 2:45am till 3am s/off u/WWRL. WABR-1440 Fla. noted AN c/w @ 3:20; I wasted c/90 minutes on 73, 900, 1440 & 1480 where TTs but no IDs existed. On 900mx abruptly ended @ 4:30am w/no ID. Later that day the Aurora still in progress yielded KPHC-1510 La. s/off @ 6:59pm u/WLAC & WSLV-1520 Tenn. s/off @ 7pm all alone. WMMO 1500 La. dominated frequency @ 7:05pm & even after 7:15 pattern change most of evening. 4/2- KFUV-850 Mo. s/off @ 8:30pm after religious sermon all alone; WPCF-1400 Fla. all alone @ 10:30pm w/mx. 4/3- WYNX-1550 Ga. s/off @ 7:15pm, WPMB-1500 Ill. heard @ 7:18pm w/Community Bulletin Board and lastly WABD-1370 Ky. s/off @ 7:19pm. Being back to 3/31 again an unID ET-1220 @ 3:40 am w/two IDs that sounded like WMMO in Miami, & off @ 3:48am. Anyone have info whether it may be call change from WMMO? More next week. (I show WLTO as the new calls for WOAH-1220 -ERC)

BRUCE REYNOLDS - Route 2 - Warrenton, Missouri - 64093

Aurora is leaving finally & some DX to report. 4/5- KVYL-1370 Okla. 7:52-8pm s/off. MM 4/7- WMMO noted ETing w/FM AN show @ 1:38am & WRIT-

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-1340 also unid, but rare, on top @ 1:56. I got the surprise of the season @ 2:08am when the station on 1440 equal to WCHB turned out to be lkw. CFCP, B.C.! They were o/u WCHB to 2:15am s/off-SSQ. They gave a PST TC at s/off, eliminating anyone else. (I left out a sentence here accidentally -ERC) I had a station u/XERB 2:50-3am s/off-SSB which had to be KING. I had about decided that KING was a figment of the logmaker's imagination, hi. (You mean - like WERA-1890, hi -ERC) WKXY-930 Fla. was in on RLA DX, 3:15-3:32am w/c/w, u/WKY. The NRC DX from KR0L-1490 got one ID through the garbage @ 4:45am which I caught on tape. KGA has changed format, but still AN MM. Now "Good Life" c/w instead of rr. Veries totally non-existent. I'm nearing my 1,500th logging, as MM DX brought the total to 1,494. I hope there will be a couple of more of these MMs with openings to the NW this Spring! 73s, rood DX & make those plans to come to St. LOUIS for an enjoyable Labor Day weekend.

CHRIS LUCAS - 89 Round Hill Road - Fairfield, Connecticut - 06430

I am about to begin my sixth year with the NRC. Here are my totals at this point: Loggings, 1,228; w/362 QSLed. States, 48/48, Provinces 9/9, countries 37/17. I am basically a domestic DXer, w/306 US veries. Regarding Station Density here in SW Conn., there are 72 RCB stations within 55 miles of here, plus three CPs (990 1170 1530), plus the local college station on 900k which ruins RRW DX, o/u CHNL at night. Incidentally, on FM there are 58 stations within 50 miles. Best states: NY 125; Pa. 99; Fla. 64; Va. 58; & Ont. 51. Best varied catches: KFIV-1360 KHDK-1560 CJNW-1240 WQDN-1600 VQUS-1480 WACY-1220 KRUX-1500 KPHC-1510. Underlined ones were not RR, however. Now to DX: 2/6- KFVS-900 Mo. @ 1:10am, r/c. 2/7- SSS, WWKE-1370 Fla. @ 6 w/NX, rr. WACY-1220 Fla. @ 8:10 s/off. 2/9- No go on WLAW TEST; WKAT (unid) on top, nowie HJBO Barranquilla SB was second @ 1:10am, and WSAI? running a very poor third. 3/29- WBTA-1490 NY @ 1:30am. 3/10- KOKO-1610 r/c @ 1:13am. 4/2- CMGH-1601 @ 12:01am, never bothered logging them before. 4/3- WJVA-1590 Ind. @ 7:11pm w/rr, right after WWKO s/off. By 7:13 past WMMO was well on top. Finally one of my most wanted on 4/4, WTTM-920 u/WJAR/WKHT @ 7:01pm, leaving only five NJ stations yet unheard here. ERC, can WJZ-1460 be heard in Brooklyn? (Yes, on FM 4/8 they were noted u/WVOX @ 10am -ERC) Five kw can't be THAT hard to hear here! Can anyone tell me what month(s) WSLT-1520 s/off later than WTTM? Last of the time I think they s/off at same time, since after WTTM goes, only WJZ/WJW are left. Veries: v/f- CKRB. v/l- WACY WWKE KFVS WCHT KVOL. RR WACY KFVS KVOL. WACY also included a desk calendar. Last Sunday (3/30) I was hunting 810am radio & noted WLIX was not there, a good half hour before SSS. I found out some kid had chopped down their tower. They are back on the air for the first time today, 4/1. At noon, WDMV in weak but clear, alone. Looping them out, I got VPR. I suppose, by WNBC/WICC. With strong WLIX off, I settled on 1600 during a lull, & found WXTR way on top, WDEV way u/WXTR, & a Mutual station WBLB coming third. He usually only WXTR is receivable here. WWLE-1170 still not an RR. My college station, WRPI-91.5 FM is now 10kw. Can anyone hear us? 73.

MARTIN BLUMENTHAL - 10 Cutler Street - Worcester, Massachusetts 01004

Uh, ah, er - well, I thought I was getting drafted, but now I don't think so. So I signed up for a hitch anyway, another hitch in the 500, that is. 3/27 SSS netted me WQIK-1090 w/c/w @ 6:05pm, no sign of WMMO. Love that Aurora, hi. 3/28 turned out to be the last day of SSS skip around here. I had that mystery unID on 860 again plugging "Long Leaf Southern Yellow Pine" & off @ 6:00pm. Chuck Hutton, is this WERD? WNOE-1060 noted all alone & for the first time @ 7:00pm. Oh yeah, I almost forgot the best one: ZBVI-780 @ 6:34pm on top of 73s, noted till 6:42 when I think they s/off. Since then CX have been a mess. RR V/L turned up nothing new except a log on WLEB-1480. The noise level has been steadily rising. For some reason April SSS really brings in the RR stations. 4/4, WMMO 1110 @ 6:30 for a report. 4/5- WCPA-1100 @ 6:30 for a report, & 4/7, WMMO 1110 @ 6:35 for a report. Admittedly not great DX but what can you expect at this time? Backing up a bit to 4/5- WKDO r/c logged for a report @ 4:10am on 1600. Then at 4:29am WRSJ s/on o/them for a welcome PR catch. TT on 1600 @ 4:45am, probably 8:01



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r/c but I fell asleep. SSS saw a very rare one in WADS-690 @ 6:20pm. They must have a very weird pattern. A bunch of unIDs on 4/6: weak rr on 540 @ 3am, probably unnn WDAK. Also an SS in there. HI on 1290 @ 3:05am, JOEY UnID f/con 1400 w/FF rr @ 3:17am, maybe GOLF. MM 4/7 another bust. I did hear weak rr on 1460 @ 1:50am but I couldn't get a bearing, which others have said is WACO. SSS, rr-1170 u/WVVA but I couldn't get a bearing, either WCOV, or possibly WLKE @ 8:55pm. Veries: BHC-1088 WRPM (a "Thank-You Gram") WCYB WQIK & WNOE. 73s.

RICHARD RICHMAN - 14 East Cheshire Place - Staten Island, New York - 10301  
My first Musing, so I'll give a little background. I've been DX-ing only since 1/69. The change came about when WERA-1590 sent me a leaflet on the NRC, along w/a verie. This helped me to find out where the hobby was really at. I've used two table models (Zenith, previously; Panasonic, since last June), with no special equipment. Totals are 228/126, states 33/29, provinces 4/4, countries 6/5. Furthest West: KMJ. Furthest South: PJB. Two mysteries of late: An AFRTS station at about 1580, w/a very good signal after midnight. Is it a harmonic of SW? The same goes for a R. Moscow w/EE programming, & a female announcer, in on 1580, or thereabouts a little earlier, evenings. Anybody know? Recent DX: 3/16- WYDE-850 @ 6:59pm w/ID, for first Ala. 3/23- WTMA-1200 SC @ 7:19pm w/Jr. Achievement Show. 3/26- WMBR-1460 Fla. @ 10:43pm w/MoR. MM 3/31, "FLI-1070 Tenn. testing w/50,000w. @ 12:20am. Also, WFBG-1290 Pa. @ 12:35am w/"Perspective." CJMS w/FF at same time. WILK-980 Pa. @ 11:33pm, w/rr. First station on 980 other than WRC. 4/1- WPGM-1570 Pa. w/s off u/WBUX. 4/2- WNTN-1510 Mass. w/s off @ 6:30. 1550 continues to be excellent at SSS: WXVA WKBA WRIZ, etc. of late. 4/3- WROW-590 NY @ 4:35pm, for first 590 station other than WARM, & WEA1. 4/4- WEP-580 Pa., making it in at last, in spite of WMCA. Penna. total, highest of any state at 33. 4/5- CKTS-900 Que. for first time, instead of CHML, at XEW, @ 12:05am. Recent veries: w/q- KSL KNX WOAI WJWL XERF CHNS CKBW WAKR. v/l- WMAJ WOOK WLSV. v/f- WJAR WPGC WXVA. Eagerly I await verie from KEWA. F/ups are out to WCHS WRNL & fifth report (special delivery) out to WFER, my only N.H. I had a very pleasant visit w/Bernie Duffy, & Pete Clarinus on 3/30. Mr. Duffy's collection of veries is unbelievable. Did anybody catch anything good on 540 while WLIX was off? All I heard was a spur of WCTC-1450 NJ. Congratulations in order: I got my broadcast endorsement on my third class license, this past Thursday. Anybody looking for a college grad w/third endorsed? 73. (Welcome to the NRC & Musings, Richard! We hope you'll check in regularly! -ERC)

JIM HENFREW - 30 Siwanoy Lane - New Canaan, Connecticut - 06840  
Hi everyone! DX has been great since last Musing. 3/17- XELO-800 @ 2:20am in EE; WSUN-620 3:11 o/all. YVOD-780 3:20am "Ecos del Torbes" w/Airline crash extra, HJLQ-1520 3:35am, lkw. "El Minuto de la Hora." With WKEW off, WTPO-1520 6:10pm. 3/18- CMCH-790 "Calmes Maraca" 10pm. 3/19- WOND-1400 2am, WCPG-940 7 pm c/w u/CBL; WHLM-560 8:05pm. 3/20- WTMA-1450 8pm u/WNAB. 3/22- WDAE-1250 10pm, CMBL-860 10:40, power? 3/23- WJAZ 10:26pm, "R. Miranara." TGN-725v 9:30pm to 10:30 s/off, EE religious, IDed in 10. 3/24- WQIK-1090 2:30am test. That's all for now, 73 and good DX.

MARV GARBNER - 2539 Kessler Boulevard - Lincoln, Nebraska  
DX: MM 4/7- KOGO-1000 noted atop channel @ 2:32am for a report, WJOL-1340 dominating w/AN MoR, NX @ 3:00, then the best catch of the morning, KYXI-1520 Oregon City, w/ID "Mx 24 Hours a Day" @ 4, WOUZ-1400 Wis. noted w/rr & SIDs @ 4:23 for a report, then ZBVI-780 s/on @ 4 into "Morning Devotions" w/requests from neighboring islands read by announcer. The sign of Barbados. New veries: WKBA WKEE WQUA & RTF-1205 Bordeaux. I'm really proud of that Bordeaux verie - first TA & first European! This brings my totals to 400/271, 44/40, 6/6 & 24/10. Say, could some of you ECers give me some info on logging some of the Maritime provinces (anything E of Que Any help would be much appreciated. Help- UnID-1070 MM 4/7 w/c/w way u/WDIA @ 5:12am looped NE, who? I also need a WC tape-recorder, who will it be? I hope to be in ST.L. this Summer. 73 & good DXing this Summer, if you can stand the static. 73.

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DAVE WHATMOUGH - 234 Main Street West - Hamilton 12, Ontario  
Seeing Charles Reh's Musing in April 5 bulletin has inspired me into checking the number of stations within 100 miles of Hamilton. There are 64 in total. Ont. 39, N.Y. 18, Pa. 6, & Ohio, 1. By classification are 13 graveyarders, 35 regionals & 16 clearers. Types- daytimers 18, fulltimers 51, of which 19 are MSP, 11 are AN-6 & 21 still believe in s/off @ midnight or lam. Out of the 64, only ten do not verify. Since last Musing, three veries have arrived- v/l- WPKN. v/q- WHE, & v/f- WKOY. DX: MM 3/24, unusual Aurora CX. 1490 only frequency w/anything on it - WFLB N.C. was clobbering local CHYM & WPCB. A few strains of WTUP Tupelo, Miss. were heard on & off. 3/25- WKAQ-1400 o/CKWW w/pop mx & SS IDs @ 12:40am. WGAL-990 Hinesville, Ga. heard ending f/c @ 12:55. According to Jason Farlow of NIA, the monitoring company in Atlanta couldn't hear them. 3/28 I heard unnn WBAO-1550 w/DT, ID @ 2:06. WIXZ-1360 McYansport for call change, must have had a pattern change too I suspect. UnID TTers on 1470 @ 2, 1480 @ 2:15 & 1570 2:16-2:18. 3/29- WGLN-1660 Wis. heard well w/f/c-TT & many IDs 2:23:30, thanks to Roger Vanner for tip. I'm working on CHAM for Roger - I should have verie for him soon. 3/30- Unn KGM0 r/c, ID @ 1:06. 3/31- UnID TTers on 600 & 1:30-2 looped to East, TT on 630 2:16 looped SE, probably WMAL. TT on 660 2:24-2:30. I wasted a half hour on 1110, instant mx turned out to be KFAP & not EHA as I was hoping. 4/1- CHRN-1600 on day pattern all evening, maybe an April Fool joke, but a treat not having to hear WWHL. 4/1- TT on 910 @ 12:30-12:41 not WBBV, OK says their test ended @ 12:40. They use mostly mx, w/five minutes of TT, sup. 4/3- Strong SS on 1480 w/announcements of Puerto Rico, CX not right for that though, 7:25 pm. Does this fit WJOM's format, Knie? (91 - ERC) 4/4- UnID TT 1480 14:40, 1490 14:50. MM 4/7 unnn! All TTs unID. 1380 @ 12:12:23, 1390 @ 12:12:24, 1400 @ 12:12:25, 1410 @ 12:12:26, 1500 TT was WBBV, ID @ 2:06. I see CHNC-1200 TTed in the top spot of the 12:00-12:30 TT, could be confusing w/calls so similar. 73.

DAVID M. JOHANN - 601 E. 111th Street - Apt. 2 - Buffalo, New York - 14204  
Hi everyone! I expect to be at home when DST starts (4/27), look out for me on 1400. I'm a ham, NRC, v/q, CM, PT, & 200 for an older report. They tell me Fleischner had been named after Ed Fleischner, a ham farmer, & is now a residential area. I'm off 1-diamond. WHE-1520 on 4:10, Orlando Fla. 3:00, 3:05, 3:10, 3:15, 3:20, 3:25, 3:30, 3:35, 3:40, 3:45, 3:50, 3:55, 4:00, 4:05, 4:10, 4:15, 4:20, 4:25, 4:30, 4:35, 4:40, 4:45, 4:50, 4:55, 5:00, 5:05, 5:10, 5:15, 5:20, 5:25, 5:30, 5:35, 5:40, 5:45, 5:50, 5:55, 6:00, 6:05, 6:10, 6:15, 6:20, 6:25, 6:30, 6:35, 6:40, 6:45, 6:50, 6:55, 7:00, 7:05, 7:10, 7:15, 7:20, 7:25, 7:30, 7:35, 7:40, 7:45, 7:50, 7:55, 8:00, 8:05, 8:10, 8:15, 8:20, 8:25, 8:30, 8:35, 8:40, 8:45, 8:50, 8:55, 9:00, 9:05, 9:10, 9:15, 9:20, 9:25, 9:30, 9:35, 9:40, 9:45, 9:50, 9:55, 10:00, 10:05, 10:10, 10:15, 10:20, 10:25, 10:30, 10:35, 10:40, 10:45, 10:50, 10:55, 11:00, 11:05, 11:10, 11:15, 11:20, 11:25, 11:30, 11:35, 11:40, 11:45, 11:50, 11:55, 12:00, 12:05, 12:10, 12:15, 12:20, 12:25, 12:30, 12:35, 12:40, 12:45, 12:50, 12:55, 1:00, 1:05, 1:10, 1:15, 1:20, 1:25, 1:30, 1:35, 1:40, 1:45, 1:50, 1:55, 2:00, 2:05, 2:10, 2:15, 2:20, 2:25, 2:30, 2:35, 2:40, 2:45, 2:50, 2:55, 3:00, 3:05, 3:10, 3:15, 3:20, 3:25, 3:30, 3:35, 3:40, 3:45, 3:50, 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