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# DX News



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\* \* "Wish I could say something classy for you to put on  
the front cover 'cause I'm rejoining, but I can't."  
\* \* (Harry Helms, Ga.) \* \*

## IN THIS ISSUE

Latest NRC Log Updater - Russ Edmunds  
Holiday Inn Station List - Russ Edmunds  
La Voz de la Esperanza Logs - Jay Murley & Harry Helms  
Verification Signers - Ernie Cooper  
Pattern Controlled Loops - Gordon P. Nelson



## NEW NRC MEMBERS THIS WEEK...

\*Joseph F. Carey, 51 Strathmore Circle, Braintree, Mass. 02184  
\*Harry Helms, Box 111 Clark Howell Hall, Univ. Ga., Athens, Ga. 30601  
\*James E. Johnson, 9116 Warwick Rd., Indianapolis, Ind. 46240

Welcome to the NRC, gentlemen, we hope to be reading of your DXploits often here in the pages of DX NEWS. Why not write into Musings and introduce yourselves to the entire membership? Your New Member Kits are now being prepared and will be mailed out at the earliest possible time.

## PRINTING PROBLEMS DELAY DX NEWS

Following several weeks of delays in the production of DX NEWS due to press breakdowns and other problems at the printer, the Publication Committee decided to cancel our present printing contract in order to obtain more reliable service. This issue has been printed by our former back-up printer, who's now taken over regular production of DXN. Because of his automated equipment we anticipate our new printer will be giving us faster turnaround; Editors may well be able to advance their deadlines in the near future. The reproduction of some of our "marginal" copy such as press clippings and light Xerox copies of QSL's may perhaps suffer for a couple of issues as the printer becomes accustomed to the problems peculiar to our copy. We apologize for the delay and inconvenience and hopefully we'll be back on RS by the time you read this.

\*GPN & BGK & CAR

Mon. April 12	C K R W	610	Whitehorse, Yukon Territory	1,000	3 - 4	NNRC
Mon. April 26	W G B G	1400	Greensboro, North Carolina	250	2 - ?	NNRC
Wed. April 28	W C O X	1540	Camden, Alabama	1,000	1 - 4	IRCA/ NRC

CKRW-610. Sorry this tip is late, but that's the way we got it here in Brooklyn. Both Tom Sundstrom and John Tweedie, NNRC CPCers, notified us of this DX TEST, which actually was arranged by Michael Lynch. Address for this station is CKRW - Box 1,799 - Whitehorse, Yukon Territory, Canada.

WGEG-1400 WGEG is a country/western station of the "Top Gun" type, and so we'd imagine, although it is not confirmed, that this would be the type of music they'll use, so look for that, and tones, and IDs. Send reports to Mr. Ralph Lambeth, President & General Manager, WGEG, Box 22,005 - North Carolina - 27420. Arranged by John T. Tweedie.

X. This is one to mark on your calendar, as it's on an "odd" day of the week - Wednesday. Country/western music will be used, plenty of IDs, and they want a self-addressed, stamped envelope for their reply! Our member, Steven Kennedy, is Chief Engineer here, and he'll be looking forward to lots of reports. You've got some toughies to combat, like WPTP - KXEL - ZNS - KCUL, but this one is 1 kw. non-directional, and we hope many will hear and report this fine TEST. Info from John Lockardo.

## MEMORIAM - MRS. DON REYNOLDS

Hank Wilkinson, NRCer of North Hollywood, Cal. sends us this sad note: "I have some sad news to pass onto the NRC membership - especially the older members. Mrs. Dorothy (Dottie) Reynolds, wife of DXer Don Reynolds, 19055 Hollyvale Street, Glendora, California 91740, was slain by an unknown assailant(s) on Friday, March 12, 1971. I am sure that many NRC (and other clubs) DXers know Don personally or by letters over the years and would like to contact him during this trying period. Letters of inquiry would certainly be in bad taste."

There's certainly little we can say that Hank hasn't said above. Our most heartfelt sympathy goes out to our friend, Don Reynolds, at this difficult time.

ERNEST B. COOPER - 438 East 21 Street - Brooklyn, New York - 11226

Veries are in from several, for a happy change: WAAQ-1530, after three years of trying; WQWV-1580, IR14-540, WKVI-1520. DX: 3/19 - I got a good one this morning, but I won't mention it until next issue. IN 3/22 - I had hoped I was getting one of those new H.C. calls on 1590 when I heard the TT there @ 12:49-1, but then it IDed as WQGE, Richmond, umm. And, we added a new country today! It was East Germany in the form of Burg-782, with S-4 signals, with Portugal evidently not on yet, 1:21-1:30am. Dual-sex announcements after each collection were noted. WABC-770 did not sleep over on him, either! Umm WAFD-900 noted on IN/TT @ 1:45am & on. Mr. FF-580 noted again IN, but he still isn't in long enough to get a report off to him. Or even to get an ID, hi. Somebody on 780 w/rr @ 3:13-3:33 & on, w/DN-type show, probably the Ramsey AFB 50 watter, umm here! no sign of "Ecos del Tortes" YVOD, formerly IN. IN 3/20 - Somebody IN on 8:00 in ES with what seemed to be KR, but I couldn't get even a half a clue as to who it was - anybody else find out, or see anything about any LA elections on Sun. 3/22! Somebody TTing on 1560 @ 1:49, suddenly disappeared @ 1:52, never to be heard again. They were weakish here, probably a "K" call. And one more unID, on 1220 @ 2:01-2:05w/TT, later with records, including Jerry Cash at 2:06, and TT later on again, but badly swamped by new pest WBAR-IN. On 1190, umm R. Cordillera, Colombia, all alone and doing fairly well. WQWV was on TT @ 1:50, and has been off IN quite a bit lately on 1400 - long live this policy! I hope everyone has a very happy Holiday season, and good DX - watch early s/ons on Easter Sunday! C U R 14.

## MUSINGS



Ernest B. Cooper  
438 East 21 Street, NY 11226

JOHN H. SHANNON - WPTT - Pittsburgh, Pennsylvania - 15222

Well gang, the only "big" news here lately was a nice visit from Jerry Starr who spent a couple of weeks in the Pothole Capital working for WEEP. We had a chance between our work skeys to get together for a few hours discussing DX, listening to DX tapes, comparing logs, etc. I wish I could get over to Yadland in April, but I will be working as usual. No logs here at work, so I have to rely on memory for recent DX. The first that comes to mind is WSEI on 844 on 3/8 around 3:30am. Also the TESTs from WSTP WJDM (umm) WELJ WBAR (umm) KILC (umm) & WKVI. WQWV off MM 3/1 for WKVI TEST, also off 3/8 & 3/15 all AM, permitting me to log much-wanted WFTO 3/8 around 4:30am testing & s/on @ 5. You must hear this s/on to believe it! Also 3/8, WRAI in P.R. logged at s/on-688 @ 4:20am, 1520k. Foreign DX not much lately although several heard, no new ones except above. Portugal-665 in every evening in March so far, but signals not too strong. I am glad TGBT(1) is gone from that area as I enjoy listening to Portugal. Say gang, let's oblige Ernie some week by having EVERY member send in a Musing. How about the week of 4/4? That will give him two weeks (with the Easter skip) to type up some 500 Musings for the novel-sized edition of DX NEWS that would have to follow such a deluge. After ERIC's comment on my idea, I now continue. (Space reserved for my comments -ERC) Latret totals at Kittanning are now 1,320/49/60/8 stations, states, countries, provinces. I am still modifying the old completely homebrew EX here. I am now in the process of designing some solid state IF circuit, and also of building each stage into little miniboxes so I can plug in different circuits and evaluate changes more clearly. I am still interested in hearing from other DXers who design and build their own gear from the ground up, and from DXers who are presently using all homebrew gear, even if no longer actively building. As they say on Ch. 26 in Jamestown, WNYF - Why Not Youngstown/Pittsburgh in '72!

MAX BRIGGS - 4138 Kirk Road - Youngstown, Ohio - 44511

Greetings all, & a special HI to Dave Sisko, TAD member #8. Dave also has been nominated by the YAD as the hardest person to reach by telephone, hi. I would also like to take this moment to wish Dave Schmitt the best of luck back in Philly. I not only speak for myself, but for all eight of the other NRCers in the area. So from us, the best! (Did he get FIRED??? -ERC) Also, don't forget the grok at Jerry Starr's over Easter. Everyone is going to be there from everywhere. For example, I got a letter from Tom McCormack just today saying he will be here with all his QSLs, QMs & you name it. So come all. DX here hasn't been good. 3/6 brought my first reception of WTCL. They should be on the air by 5/1 at the latest. 3/10 brought WNET-1590 all o/WEST for a new catch @ 8:16pm. It was quite an evening for the southern stations. More from that area is in a DDXD somewhere around this issue. 3/15 brought the WJHX TEST in fairly well at 2:33. That evening over at Ves Boyd's w/Jim Chrislip & Buddah (along with food) came WVEH-1035 from Haiti. ESS on 3/18 brought nothing new but some good catches anyway. WCPK-1600 s/off @ 8pm & WFRG-1600 both @ 6:30, also WSET all over 1580 around 7. That's all from the YAD - 73s & one to the GATHERINGS.

TIM KERFOOT - 34 Cross Street - Weston, Ontario

I would like to extend a belated welcome to Skip Stenbel, who joined NRC in January, and who helped me out on an unID. I have no new DX to report since last Musing, and have not been listening too actively. I tried for the WJQT-1000 NRC-PoP on 3/13, but heard nothing except WCFL's overpowering signal and CFGB splatter. Of course the only way I can get around locals like that is to use the portable. I also had an unID TT on 1340 1/21 from 12:15 to past 12:20am. New veries: WJMA-1340 and WDOR-910. 73.

REMEMBER, THE NEXT ISSUE WILL BE IN TWO WEEKS. DEADLINE HERE IS TUES. APRIL 4/13

4 MARC DeLORENZO - 35 Sylvan Drive - Hyannis, Massachusetts - 02601

I was very interested in Alex Bowab's comments on water path reception (2/20 issue) & I for one would like to hear more about your experiences in this area. I too am fascinated with this subject. Recent DX: KFBK-1530 good w/MoR to 2:30 ID MM 3/8, KKHI-1550 also in well this MM; KRDS-1190 fair w/country rock 3:14-3:25, only second time heard. 3/10- HJCK-700 R. Sutatenza alone on channel w/special HW beamed due S 9-9:06pm; ZBVI-780 noted at s/off 9:13pm w/GSO. 3/13- WCCR-1580 r/c-IT 1:17-1:30, only one ID noted, that @ 1:17 s/on. I noticed that XEM-900 left its OC on after 1:45 s/off, so ERC, this may be your unID OC here. (Thanks, Marc-ERC) 3/14- YVLB-1040 "La Voz de Carabobo" alone @ 7pm. MM 3/15- TA-1594 good w/instrumental MoR 12:11. This one is often heard but never IDed, Portugal, I guess. WTHB-1550 w/new r/c-IT 12:36; WSWN-900 Fla. w/EP/OC/TT/ mx through that potent OC 1:26-1:45 tuneout; WJMX-970 TEST excellent way o/WWSW w/MoR 2-2:30 s/off; SS-880 w/EST TCs & occasional 'police whistle' between records. Every one else seems to be hearing R. Union but I can't manage an ID - I have heard this one at least 12 different MMs! WPJD-1550 Tenn. ET/organ mx & piano mx 2:45-3 s/off; mx was 'inspirational'. No trace of KIUC-1140 TEST, only the jammer. YVLX-570 strong w/Rumbos NX & chimes @ 4:35. WQWV-1380 Conn. s/on-SSB o/u ~~WVLC~~ @ 5:01. 3/16- WCOV-1170 Ala. good w/ID briefly o/WVVA in latter's null 6:58pm; ZDK-1100 on past 11pm w/soul program. YVGO-640 "Onias Portenas" @ 7:14 o/the "unmodulated" CMQ. 3/18- WQBK-1300 N.Y. (ex-WEEE) heard @ 6 s/off. YVOR-720 R. Cumana o/Cuban @ 19; YVIC-740 R. Maracaibo w/six minutes of ads @ 31-6:37 pm before ID, then - another ad! 73.

JOHN P. LOMBARDO - 23 Grove Terrace - Irvington, New Jersey - 07111

Hi thre! Some new veries have been added here since last Muse which are: CKNX WSAY both v/1, WKYC v/q, KILQ v/f, WHIM varied on a slip of paper, & WEAS varied on a CM. WEAS requires a SASE for a verie. Like so many of you people (?) I have just ordered the SM-1. I hope it works as well as some of you have reported. 3/13- WARR-1520 N.C. was heard conducting an ET between 12:33 & 12:54am w/very heavy QRM from WKBN. There was a fairly strong station on 625 playing light mx between 1:25-2:07am without any announcements. This was probably TIRICA w/their new XR. I checked the next SM but there wasn't a sign of them. 3/15- A fairly weak ID was received from WQMS-570 @ 1:38am, but it was hard to tell when the test ended because they were only using an OC. At 2am I received the WJMX-970 TEST w/a good signal. I tried for a new monthly f/c which was reported by the IRCA, and it turned out to be very successful as WPJD-1550 Tenn was heard w/a beautiful signal between 2:45 & 3. The test consisted of organ mx w/IDs given about every minute. 3:17am, I tuned in on an SSB on 1480k which turned out to be the WBTS r/c, but the test was conducted between 3:17 & 3:27am. This test is incorrectly listed between 3 & 3:15 in the NRC f/c list. 3/21- WBNX was heard conducting ~~an~~ ET around 1:38am with just an OC on. 73s.

G. HARLEY DeLEURERE - Box 10 - Hendricks, West Virginia - 26271

Veries keep trickling in. Since my last report I've added WKSE WOAY WHAR & WGHT, which means I need only six more veries to complete W. Va. The ones that are outstanding are WKLC WOVE WSGE WWHY WWRN & WMYO. I sent reports to all of them in times past, but I never did receive replies. I'd like to complete this state before 1971 is out. Tuesday I heard both WTRI-1520 & WQMR-1050. If they veries, it'll leave only WHMD-900 that I won't have from Maryland. And WHMD can be heard here practically any day early in the morning. WGNT's address is Box 1187, Huntington, W.Va. 25714, and is not the same as the one given the NRC Log for WSAZ. Well, I had better close. I'm to meet a friend in a few minutes when we'll go to Oakland, Md. for a couple of hours.

WARREN BROWN - Ashaway, Rhode Island

Hi. A few veries I have received during the Winter: KOHL WKVI WMLT WMB WILL WODI WYLS WOZK WPCF WCRV WROL WTLB WWHH WQOE KFGO WORV WOBK WEEB WHEE ZDK. Most were NRC TESTS and f/cs. 73s.

PLEASE SUPPORT THESE OFF-SEASON DX NEWSSES WITH YOUR MUSINGS. PLEASE DOUBLE SPACE.

DARRYL BELANGER - Box 495 - Swan River, Manitoba

5 Hi from the Northland - only a little heard since last Muse. First, sorry, ERC, for neglecting the time for KRKS-990 TEST. According to their letter they test as "regular weekly maintenance program" from 2:20 to 2:30 EST w/instrumental hymns & announcement at end of test. On to the little DX heard lately. 2/14- WISM-1480 @ 11:30pm poor w/mx. KAUS-1480 on 2/21 @ 11pm s/spots & NX, fair signals. 2/24- KREX-1100 @ 8:30pm booming in w/upbeat MoR. 2/28- One of my most-wanted, CHTM-610 popped in for a while @ 2:32pm in the afternoon w/NHL Hockey & Hit Parade Show w/fair-good signals. Now only CHFC, Fort Churchill to go. CJRL-1220 from 9:18-11pm, Tom Scott show until 10:45, then religious programs, first time heard since I lived in Winnipeg. 3/10- KJUB-570 @ 10pm w/WNAK partly looped playing MoR. Finally, on 3/14 @ 10:45pm, my best catch ever, XERH-1500, R. Tricolor, way u/"local" KSTP. Two taped IDs. If I hadn't logged them on SW earlier in the year, I'd still not know who they were. But thanks to hearing their distinctive slogans between records, it was easy. These last two catches were possible since I re-wired my loop with proper wire. My available frequencies are decreasing due to "locals" KLAQ KXEL KKJO (ugh!) KOMA KFBK KVGB KDKO KSTP XERF. Oh well! There go the 1500s and with 540-640 gone the same way there's getting to be less DXing room up here. Veries trickling in slowly have been: KXRB v/1, CM, & sales folder, KFML v/1, two CMs, KAUS v/1 w/date & location typed in; XEMO & WNBC, v/q. Several reports out but poor results so far. Two questions: What are the powers of R. Tricolor-1500 and XERPM-660? Who is the best bet for the SS u/WGN-720? About it, so I'll s/off - 73 and good DX.

BRUCE WINKELMAN - 1404 Alumni Place - Lawrence, Kansas - 66044

3/17. I'll run off a quick Muse now and then hit the books. Ugh! My ~~new~~ fever is up again due to the acquisition of an SM-1. I tried it out over Spring break last week and it's working out real fine. Signal strengths are mucho gr ater than with the old loop. All the following were heard on the SM-1 at home (El;inwood, Kansas): 3/9- WMBD-1470 @ 12:20am w/WX, then KRBC @ 12:22am. w/WMBD nulled. CJBC-860 @ 1:01am w/FF NX & s/off @ 1:05. XETRA-690 @ 1:26am w/soft mx, announced "Full AM Stereo" @ 1:30am. 3/10- On 670, unID continuous mx from 12:35am tune-in to 1am fadeout, no ID caught as of course the S-8 signal during the whole time faded @ 1am to absolutely zilch. KBOI? Then @ 4:36pm doing a little daytime DXing, KQWA-960, and KWOA-730 w/religion @ 10:12am. Due to the compact size of the SM-1, it's now here in Lawrence along with my A-2515. But the building I'm in makes the directional characteristics of the SM-1 completely useless. Nuts! Nevertheless, some DX has been attempted. Here's what I've heard. 3/16- KWRB-730 @ 6:25pm, this one dug out of the mess thanks to the SM-1. My Sony portable gave only dead air. 3/17- KFAL-900 @ 7:06pm fighting it out w/KEYN; WSUI-910 @ 7:17pm w/cl mx, this one had an S-9 signal, rock-steady for 15 minutes. KARK-920 @ 7:09pm w/mx. No veries in because no reports out. I've got to get started in that area. Totals from home (Ellinwood) DXing: 218 stations, best catch WQUA-1230. No totals available from DXing here at Lawrence, but they aren't very high. Well, time for the books. 73s & good DX.

DOUGLAS B. SHARP - 5524 W. Willow Highway - Lansing, Michigan

I haven't had much time to DX lately, but on several MMs I've crawled out of bed to listen. Can anyone figure out what the Morse Code is on 530 & 534? I've noticed this several times. A beacon, perhaps? Latest DX: 2/15- WCLS-1580 w/rr @ 10:08-m, WHOM-1480 @ 10:32 through the mess, WQEM-1440 @ 10:43pm. 2/16, on SSS, WQNY-1220 @ 6:11pm, WCGO-1600 @ 6:31, WIXE-1360 IDing as "Wixee" @ 7:37pm. MM 2/22- KSTP-1170 u/WVVA w/rr @ 12:20am. I have a tentative on Bordeaux-I-1205 @ 12:43am fighting the YVOZ/WOAI splash. This is my first TA log. Local WJIM-1240 was unexpectedly off. I called them & they said their silent period was 12-5:30am MMs. With WJIM off I logged WJBC-1230, WBIR-1240 & WJIM-1240 around 1am. I haven't seen any of my Mjsings yet. Since I'm kinda new, what am I doing wrong, ERC? 73s. (Hi, Douglas - you're sending them to the wrong address - Musings come to the address atop the first page of this section - this one was forwarded by GPN - ERC)

WE'RE ON OUR SPRING SCHEDULE - GET THOSE MUSINGS IN BY THURSDAY, APRIL 15!

ARV GARBER - 1539 Kesslet Boulevard - Lincoln, Nebraska - 68502  
 It's been a long time since I've reported to these pages. Too long! Re-intro: I'm 20 & have been DXing since 12/66. I've been a member of IRCA since 10/67 & NRC since 2/68. I'm currently working fulltime at a local electronics firm & plan to go back to the U. of Nebraska for the Summer sessions. RX here is a Hallicrafters SX-88 w/20 tubes (for you tube-counting friends), utilizing several LWs & vertical antennas for BCB & SW. Also, I've got two 4' box loops but no Magnet, hi! Work sked prevents MM sessions & many times also ISS DX so that is one reason why I haven't reported as much as I would've liked to. The last time I was able to DX MM's was back in January. I now have 401 veries from 42 states, eight provinces & 23 countries. Veries since November are: KKIS-990 KWJJ-1080 KIWT-1590 KYOS-1480 WDBC-680 WRYU-950 (thanks, BGK!) KIUP--930 WBSR-1450 (best GY on RS) WSHN-1550 KSWW-1250 KROC-1340 KSEN-1150 CKEY-590 (!) CUDV-910 SRS-725 (after 1 1/2 years) HQJB-700-DX, KPOI & KFJZ. Some of you may remember my DU catches back on MM 4/20/70. The only ones I was able to report (by tape or written) were 1YC-880 & 3L0-770. Well, 1YC sent a v/q as pictured in the 3/20 DX NEWS & 3L0 sent a v/q w/the wrong date & time. Besides that the 3L0 WAS badly torn in transit. I re-sent the tape & the written report & received a verie (in 10/70) for VIR6-6150K instead! It would seem that report sent to Aussies aren't checked very well & that they are probably automatic verifiers. I'm probably not telling anyone anything he doesn't already know except that I wonder what I'll get from them for the 4QD-1550 report of 11/9/70? Comments? JKC, did you ever get a verie from 4QD for your reception on the same date? I'm planning a trip to Western Nebraska (Scottsbluff) & I plan to take my RX & loop to take advantage of the later ISR time to try for DUs, Hawaiians, etc. This will probably be before DST sets in so watch for my report in IDXD in the future. 73.

KEN ROMSTADT - 2719 104 Street - Toledo, Ohio - 43611  
 Hi. It's been a while since I Mused so I think I will get my typing fingers back into shape. On 3/19-20 Dan Myers had a get-together over at his house & I had a good time but wished that more NRCers would have come. Now to DX. 3/16- WKTN-1000 Lexington, Miss. in good @ 6:45, WOLF-1490 Syracuse, N.Y. @ 10pm. 3/17- CKCK-620 Regina in u/o WIMJ/WATE @ 12:10, WKAQ-580 San Juan dominating channel C 12:15am. 3/18- WKTY-530 LaCrosse, Wis. @ 7:15, WIXK-1590, New Richmond, Wis. also @ 7:15. 3/20- WTOO-1390 Bellefontaine, O. in @ 2pm, WERT-1220 Van Wert, O. in w/BKR & ad for Van Wert National Bank @ 2:15pm & WFVL-1460 Painesville O. in C 4. I'd like to welcome Dave Burke and Grry Siegal into the NRC. WITO-1520 is with the American Contemporary affiliation. I hope to Muse again in 14.

DON EGGERT - 321 Hoffman Court - #8A - Crown Point, Indiana - 46307  
 3/22. Greetings. Some real DX here for the first time in almost two months, but I'm afraid I've let the better part of the season slip away from me. Here's what I've heard of late: MM 3/22- CX seemed real good to the West, w/KSL being unusually strong, WCSC-1390 @ 12:02 s/off-SSB mentioning FM & "on 1390 since 1930". (My 1934 verie is for 1390 kc/s! -ERC) WAVI-1210 C 12:38 & on w/ET/mx using Fifth Dimension album & frequent IDs. Finally KWVO-1030 @ 1:08 w/NX w/Mexican looped, WCOK-1060 @ 1:15 during ET/mx, KQRS-1440 @ 1:42 on RS w/UG-like rr, WAFK-900 @ 1:53 w/ID during TT & ID @ 1:30 & off @ 2. Finally, one I've wanted for a long time, KPAY-1060 @ 2 18 on RS u/UNID c1 station, & finally CFRA-500 C 2:28 rocking away on NSP RS. Later in the day WFIA-900 @ 5:45pm s/off. Total logged here in Crown Point after six months is now 606. Here's one for the "if things aren't tough enough for DXers already" department. Somebody fell asleep w/TV on this past MM as TVI was everywhere @ 3 & a check showed all TV stations were off by then. Ohh. I'm looking forward to the YAD Guys' Confab upcoming. Little chance of my making San Francisco for NRC, so Y-town will have to do. I'll be in New Orleans 3/27 for five days and one of my secretaries had the audacity to make reservations at an HI for me - sounds like a frame-job, but honest - I'm innocent! 73. (For SHAME, Don! -ERC) Are the METS going to do it this year? (You bet your sweet Cubbies -ERC)  
 THE BAY AREA IS INVITING ALL NRCERS TO THE ANNUAL CONVENTION IN SAN FRANCISCO!

(no name) - 4818 Farrington Avenue - Indianapolis, Indiana - 46201  
 Another hello from Indy's radio freak & student. We'll be in Texas to meet a high school mate going to school in Austin & I think we'll try some DX down there. Myabe I will be able to log WIBC down there & appreciate it, hi. They are pains when you want to log around them. That's true with every local though, isn't it? Well, more DX, but one last think. I don't think I'll make the chin-in at Youngstown. Why? Because I'll be down in Austin soaking up the sun while Youngstown will suffer a blizzard, hi. No, I hope everyone has a grand time there. Meanwhile, I'll tell you how the tennis is down there. DX: 2/20- WFIA-900 Louisville @ 6:14pm s/off, WRON-930 Centerville, Ind. @ 6:15 s/off, KWKH-1130 Shreveport @ 6:44pm w/local NX, WGAD-1350 Gadsden @ 6:55 w/mx & WING-1410 Dayton @ 7:04 w/mx. 2/21- WIOD-610 Miami @ 11:05 w/NX. 2/25- WBCS-1550 Bennettsville SC @ 1:34 w/ET, ID. XENU-1550 probably the SS topping the channel w/talk @ 1:45. 3/1- WBLJ-1230 Dalton Ga. w/TEST @ 1:56 till 3, good signal, report out to them. WYIS-1350, York, Ala. @ 3:52 w/ID for ET. What's their power? (5,000 D-1 - ERC) WTOP-1500 Washington @ 3:55am ending Georgetown U. program, then nice pop. WPNX-1460 Columbus Ga. ending NX @ 4:03. WHBU-1240 Anderson, Ind. w/ad @ 6:45pm & WISN-1130 Milwaukee @ 6:46 w/WX. 3/3- WMBI-1110 Chicago @ 6:59pm w/NX, WDGy-1130 Minneapolis @ 7:02 w/NX, then CKSB-1050 St. Boniface Man. @ 7:43-7:54pm in FF w/mx & announcements, and fantastic instrumental mx. A surprise! WHN-1050 NYC @ 10:04pm w/Mutual NX. Now, there's a pest, ERC. (They can't be all bad, Mr. X - they stood by for the WENC TEST! -ERC) KAMD-910 Camden Ark. @ 11:01 w/NX. 3/4 brought WVOJ-1320 Jacksonville @ 1:35am w/mx, WIFE slop. WARI-1480 Abbeville Ala. @ 1:48-1:50 w/TT & ID, probably f/c. WERK-990 Muncie Ind. @ 6:15pm w/pop, WPFB-910 Middletown, O. @ 6:28 w/spots. 3/6- KARK-920 Little Rocj @ 10:42pm w/pop. 3/8- WHK-1420 Cleveland @ 12:53-1 light mx program, KRNP-1350 Des Moines @ s/off about 1:10, WPOC-1290 Savannah @ 1:35 w/light mx, QRM. WKTB-1090 King N.C. w/TEST from 3:06 past 3:31 w/TT mx & IDs, WLBC slop, report out. WLBC-1340 Muncie Ind. @ 6:45pm w/pop, WKAM-1460 Goshen Ind. @ 6:49 w/mx, & WTRI-1480 Terre Haute @ 6:53 w/Taylor "Sigh". Peace my friends, and keep up DX. Any DXer in Austin Tex. or Memphis, Tenn. who would like a call, put your number in DX NEWS. I'll give you a ring when I'm there. So long.

BOB HUTT - 9242 Warwick Road - Indianapolis, Indiana - 46240  
 Hi gang - it's time for another Muse. Lately DX around here has been exceptional. I haven't got anything super-outstanding, but I think it pretty good. On 2/27 WBAM IN GOOD @ 6:20pm, KNQE-540 fair @ 6:49, CBEF in FF @ 6:59pm on 1050. (CBEF's on 540?? -ERC) That about rounds out the DX for February, DX-CEPT! Radio Belize in good as usual @ 11:06pm on 2/27 at 840. Good things always come in pairs, so WHBQ & KWTO-560 in on 3/1 @ 5:59pm. Long-awaited KCPA on 3/2 @ 7:16am on 1030. Other DX includes: WRBC-1300 o/slopover from local WIFE, WATV-900 @ 6:30pm, KAPE-1480, a f/c @ 1:10am, WBT-1110 o/KFAB @ 6:01pm, a good catch on 810 after local WATI s/off was WSJC @ 6:47pm on 3/7, not heard for a long time. KOMA-1520 @ 10:10pm on 3/9. WDBJ, by the way, changed call letters to WFIR. Next, as if that wasn't all, semi-local WKAM-1460 Goshen, Ind. @ 7:40 on 3/15. A real surprise (not for you old timers), XETRA-990 @ 6:30am on 3/18. That must have been a good morning because regional powered KIMN-950 in Denver riding on SRS overpowered WXLW, 5kw. Local located about six miles from RX for my #2 Colo. station. (WXLW uses only 500w pre-SRS -ERC) Finally a good Canadian catch on 1580 on 3/17 @ 10:59pm was CBJ in FF w/an S-9, running 10kw. I hope to get a Super-Magnet soon - that really ought to raise totals! That's all the DX I have now, but I certainly will have more in the future. 73s to all.

BERNIE DUFFY - 350 Richmond Terrace - Apt. 1P - Staten Island, New York - 10301  
 This DX season I have to settle for one quality station, & verie, namely "R. Atalaya" HJEM-790, Bucaramanga, Colombia, which I logged L&C 3/1 @ 4:40-5am. They verified with an attractive Spanish language banner, and letter, just 12 days after my report. They showed they much appreciate DX reports.

THE NEXT ISSUE WILL BE IN TWO WEEKS. WHY NOT DROP THIS NIGHT NOW AND SPIN OFF A MAILING REPORT SO THAT IT WILL GET HERE BY THURSDAY, 07 PLEASE DOUBLE SPACE!



Gordon Nelson, 17 Irma Ave., Wintertown, Mass. 02172

### REPORTEDLY IN OPERATION...

**CUBA.** "Comment on your addendum to Conrad's Thirty-Country-in-English article: Forrestal spent about 3 weeks in Guantanamo in September of 1969, and while there I listened each eve to CMKS-1290's EE - the extent of the EE discovered by me was a 6-6:30 pm (local time) news/commentary... the last 10 minutes of which was an update on American atrocities in Vietnam. It consisted of alternating male (Mike LaGuardia - I remember his name) and female commentary. **Whether this program is still carried I don't know.** They tagged the show by saying it came from Radio Havana Cuba, as I recall." (Info from Alex Bowab, aboard the USS Forrestal) Good, Mike, this confirms the information I had obtained from another source. **So indeed there are a full 30 countries audible in English in the Latin America/Caribbean area!** (Ed)

**GREECE.** On March 23rd the Athens Armed Forces Radio station on 1142 left the air in the evening and did not return until 1843 GMT; at this time both transmitters returned announcing that the break in transmission "was due to tests of the new powerful Forces' transmitter, which will be put into operation shortly." **No further information available at this time.** (Editor)

**IRAQ.** Baghdad Radio began test transmissions of a new commercial radio service, the "House of Peace Radio" ("Huna Idha'at Dar as Salam") on March 24th on 1090 kHz; according to the Iraqi government this is the first commercial radio operation in Iraq and will operate 16 hours a day. (Editor)

**YUGOSLAVIA.** Radio Borba in Belgrade is a new station on the air since March 2nd on 1349 kHz; mostly pop music and commercials. (ARC)

**PORTUGAL.** A new station is now in operation at Sao Gabriel on 971 kHz; this is an E.N. operation. (Bengt Ericson, touring in Portugal)

**WEST GERMANY.** RFE on 719 kHz began operations with a new sked as of March 7th: Weekdays 0350-0015, Sat-Sun 0350-0200, Sun-Mon 0530-0015. (RFE)

**INDIA.** AIR's new 100 kw transmitter at Simla on 770 kHz was officially inaugurated on January 25th. (ARC)

**TAHITI.** Papeete ORTF is now operating a relay on 1450 kHz; this has been heard and QSL'ed by NZ DX'ers. (NZDXRA)

### PLANNED OPERATIONS, RUMORS, ETC.

**SAUDI ARABIA.** A MW station is currently under construction at Jizan. (Ed.)

**CYPRUS.** Beginning in April of 1971 Radio Monte Carlo will begin test transmissions of the new relay facility on 1232 kHz with a 20 kw transmitter. These tests are supposed to consist of nonstop music; a permanent 600 kw transmitter is scheduled to begin operation in 1973. (SCDX)

### PIRATES AND OTHER UNSAVORY OPERATIONS...

**INTERNATIONAL WATERS (HOLLAND).** Radio Nordsee returned to the air on 2/21 after two weeks of tests on 1367 kHz. Programming is in English and Dutch; two addresses are currently given for reception reports: RNI, PO Box 113, 8047 Zurich, Switzerland (the old address) and RNI, Postbus 117, Hilversum, Holland. Nordsee is now verifying with a colored card showing the Mebo II; to obtain a QSL reports must be sent to the "Chief Engineer, Technical Staff Department" at the Zurich ONLY. **Enclose 3 IRC's.** We don't know how willing they will be to QSL old reports but it's worth a try at least. (Terry Greenhill, England)

### MYSTERY ON MALTA? MAYBE!

Before the recent move to 1511 kHz from the old channel of 1546, the BBC's Central Mediterranean relay station (listed as only 10 kw) on Malta was quite widely heard here in North America. **So widely heard, in fact, that some of us began to suspect that the BBC was not telling the full story about this station - compared with other stations with the same (supposed) power in that part of the world on nearby frequencies the BBC Malta operation seemed too well received on this side of the Atlantic...** Your Editor sent several letters of enquiry to the BBC about the power and antenna of this station but no reply was received.

Several possibilities seem reasonable to explain the BBC's seeming reluctance to give further information about this particular Arabic language relay station. While 1546 was allocated to the U.K. under the provisions of the Copenhagen Plan for broadcasting in the European zone, the channel allocation was for regional service only. **It may then be that the BBC found it hard to operate with higher powers to assure adequate coverage for this station and is unwilling to admit that the formal strictures of the Copenhagen plan had been violated. Or it might be that the BBC is unwilling to release information about this station because it might reveal which specific areas of the Mediterranean are of greatest current concern to H.M. Government...** Or, least likely, perhaps the British Government has been less than candid about the entire operation (shades of the Botswana BBC relay!).

An NRC member recently visited Malta and decided to check 'em out. Says he: "I got a run-around when I hiked out the Delimara peninsula to visit 1546; no markings on the facility to reveal what the thing was - only by knowing from World Radio Handbook that it was located at Delimara Point did I know the location. The engineer was outside the building, but played the hush-hush routine, saying it was a secret operation. **After I told him I knew what it was (that info which is gleaned from WRH) he stuck to his guns, so I found out nothing...**"

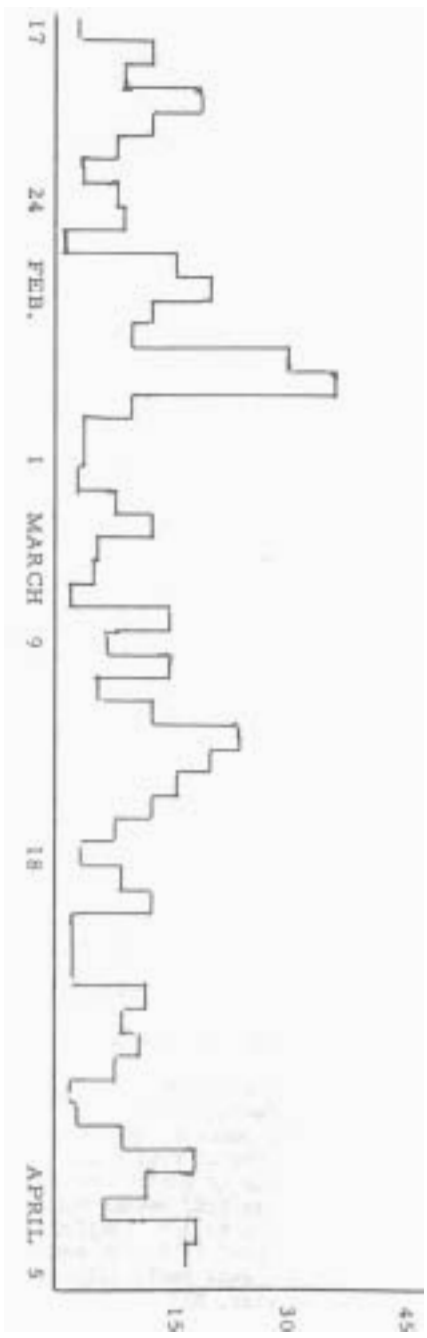
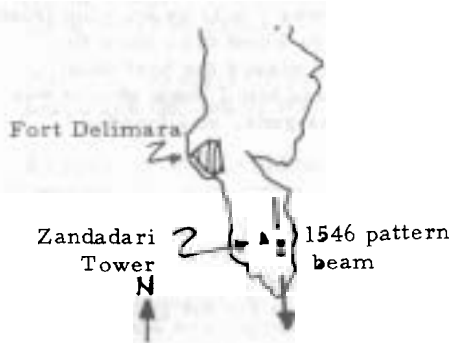
Our trusty amateur spook did however manage to take some colored photos of the Delimara station, however, and has sent them along to us. The colored pix won't reproduce here in DX NEWS unfortunately, but they show the following. **The transmitter site consists of two separate buildings surrounded by a low-security fence. Both seem to be pre-fabs, one for the generator**



system ; the other for the transmitter itself. While the exact details of the transmitter are not visible, based upon the size of the power plant and the transmitter building it seems reasonable that the transmitter is in the 10kw-50 kw range, and is not really in the super-power range. **No evidence of the receiving antenna system is visible in these pictures (taken from a range of about 1/4 mile). Most interestingly, the transmitting antenna system consists of a pair of guyed towers cut for about 1500 kHz.**

One of the pictures happens to show both the transmitter complex and the "Zandadari Tower" in the same shot; with the aid of some of our old detailed OSS maps of Malta we've been able to determine the exact transmitter location and beam orientation for this station. As shown on the map below, the station is located at the extreme of Delimara Point in the Southeast part of Malta. By combining these recent pictures with the map we discover that the two tower pattern beam is aligned at an azimuth of about 175° true. As shown below, this particular station is designed to provide primary coverage to the oil-rich and politically sensitive Libyan area... And this probably explains the relative "sensitivity" of this particular installation - sometime during the past year a Whitehall memo was passed down directing the Foreign Office (which controls the BBC's External Services) to "concentrate" on Libya. Since the original political directives establishing the Malta station were motivated by non-public foreign policy decisions, the "hush-hush" aura has been communicated all the way down the line to the personnel actually operating the station... As anyone who's visited a USIA-controlled stateside operation has discovered, though there might be 50 tons of steel transmission towers beaming signals into a particular area for all in the neighborhood to observe, local station personnel will more than likely deny that there's a transmitter there, much less confirm your observations of antenna orientations, etc.

The antenna configuration shown in these pictures helps explain our unusually good North American reception of this station; the back lobe of the two tower pattern beamed on Libya happens to correspond roughly to the great circle bearing to North America. While the antenna patterns for most Central Mediterranean area Arab beamed stations have major lobes in the E-W plane (e.g., BBC Cyprus-638); the Malta to Libya beam happily gave us a back lobe strong enough to reach to North America. Ours is not to question why, but to obtain QSL's if at all possible..!



This graph shows the fluctuations of the "1546" pattern beam of the Malta station. The signal strength is measured in dBm. The graph shows the signal strength of the 1546 pattern beam of the Malta station. The signal strength is measured in dBm. The graph shows the signal strength of the 1546 pattern beam of the Malta station. The signal strength is measured in dBm.



Robert L. Foxworth  
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Receptions: (All times in IDXD are in GMT.)

- 548 Algeria. Oran logged 2315 3/12 with very weak audio, YL talking and vernacular mx; usually only appears at this time for a half-hour or so. Not needed. (Kocsan, New Jersey)
- \* 548 unID. Still driving me zany. Was in on 3/6, 3/12 and 3/17. Was s-6 to 7 at times but audio weak. Comes in after Algeria signs off and loops below Algeria, which confuses things. They stay in with deep fades until after 0200. Has classical mx and much talk. Is not German or Arabic. Had thought of Russia, but loop bearing way off for that. (Hoffman, Ocean City, N.J.)
- 555 Nicaragua. Radio Tic-Tac, Chinandega barely IDed 3/18 0425 with the usual fare on this one. (Gleason, P.R.)
- 575 Costa Rica. "Musical 575" San José hrd IDing this way 0445 3/8. (Objfo, DR)
- 647 Gt. Britain. Daventry in 0453 3/10, fair with some sideband splash, a man in German and YL in Slavic lang at 0500, and following European Svce sked as shown in WRTVH. (Kocsan, N.J.)
- 660 Mexico. XERFM, Radio Juventud, Mexico, DF very strong with a singing ID at 0639 on 3/15 and playing pop mx. (Objfo, D.Rep.) (Sullivan, Mass, next p)
- 660 Colombia. Cali HJJM hrd with MoR mx, frequent Radio Uno IDs 0640-0700 3/15.
- 660a Haiti. Radio Lumière at s/off with NA at 0404 on 3/8 after news in Eng. (Objfo)
- 675 Ecuador. Radio Atalaya, Guayaquil very strong with football, or, soccer as you call it, commentary, as well as some recordings from a game played that afternoon; hrd 3/8 at 0415 and on. (Objfo)
- 700 unID. Eng and Spanish mixed here with WLW looped, 3/10 0020 with equal strengths from East Caribbean area; one had an 8-note whistle and suppose this was the Spanish spkr. (Kocsan, NJ)
- 720 Panama. Radio Republica, HOB50, Chitre with Panamanian-Indian music, girl singing, under the Cuban, the ID was in the middle of the song by a girl, then at the end of the song, this at 0552 on 3/8. (Objfo)
- 725 Ecuador. HCMB2 Guayaquil, "Radio Guayaquil" is listed here by 1971 WRTVH; possibly my mystery NSPer but will wait for a decent ID before logging. (Schatz, Fla.)
- 750 Japan. JOIB strong with NHK pips at 1100 and 1200 3/12 with no trace of KFD, indicating a sharp edge of the absorption area as being somewhere between Anchorage and Kodiak. (Millar, Everett, Wash.)
- 765 El Salvador. This freq was // 770 at 1125 3/15; has anybody found out which relay is in which city? (Hauser, Texas) (Not to my knowledge, Glenn-ed)
- 765.5 El Salvador. This freq measured on R-530; running // 770 0545 3/15 and IDing as, "YSKL, la poderosa, primera en todo el país", offering prizes. (Wood, Baton Rouge, La.)
- 770 El Salvador. This freq with ranchera mx, same as 765, this one stronger here. (Hauser, Tx.)
- 780 Br. Virgin Is. ZBVI in like a ton of bricks at s/on 1000 on 3/15 and the S-meter hit 20 over 9. Crazy commercials; no fading for 20 min. (Hoffman)
- 810 Colombia. Radio Sutatenza, Bogotá at 1017 3/14 under a weak WGY (who were IDing as WGFM and evidently testing axr); the SS read a list of calls and freqs, then into a mixture of talk and sedate LA music. (Kocsan, NJ)
- 810 Panama. Onda Popular, Bocas del Toro, with pop mx pgm, asking for reports to Apartado 1795, Panamá, went to 0452 s/off with NA 3/8. (Objfo)
- 825 Costa Rica. Titania with excellent readability 0427 3/18 with MoR music, much of it US origin. Specific ID as "Titania", sans Radio. (Gleason)
- @ Titania, TIOS with local pops at 0300 3/3. (Alster, NJ)

- 830 Haiti. 4VEC at 1035 3/15 in Creole with prayer while WCCO looped, had a hymn to the tune of GSTQ, WRTVH has them sked in Spanish but the Sp'h was on 1035 outlet instead. (Hauser, Texas)
- 834 Belize. Had a cultural pgm at 0427 3/18 about language origin and the derivation of words. Best ever heard. (Gleason, PR)
- 854 Peru. Radio Nacional, Lima playing tapes of soccer game at 0607 3/15 (Objfo)
- 860 Brazil. Radio Mundial, PRA3, Rio de Janeiro, hrd for the first time on 3/15 at 0600 with pop mx and ads. (Objfo)
- 860 Mexico. XERFM (not XERFM-ed.) Cd. Juarez, Chih. believed to be the oft-hrd XE-; definite call, at least as to the XER-- portion of same, at 1230 3/2 and would appreciate cfmg of call/location as the only place I can find it is in VeeJay #4. (Millar, Wash. state)
- \* 880 Peru. Union Radio, OFZ4M, Lima. This stn was hrd IDing this way instead of the usual "Radio Union" at 0612 on 3/15. (Objfo, D.R.)
- @ Finally logged this with Radio Union ID 0809 2/18. (Millar)
- 880 New Zealand. 1YC at s/off with GSTQ, quite good 3/12 at 1100; note coincidence of logging JOIB-750 same time and date. (Millar)
- 890 Cuba. Radio Musical Nacional, La Habana s/off at 0500 on 3/15 with NA and was to s/on at 1200. (Objfo)
- 899 Italy. Milano in at 0515 3/10 and was best at 0535, Canadian on 900 was annoying but not destructive; man in Italian with varied mx including rock group, pop mx and combo with singing in French; musical chimes and I.S. at 0530. (Kocsan, NJ)
- 900 Mexico. XEW, La Voz de la America Latina with a long newsreel s/off at 0621 on 3/8, no NA hrd. (Objfo, DR)
- 905 Ecuador. Radio Espectaculo, Guayaquil 3/18 at 0440 with chicken rock, part US and part Latin and one ad after every record. Poor copy; ID is based on music and ads rather than station ID. Several ads that I recognized for definite Guayaquil merchants or Ecuadorian products. There was a bad bet from someone else on the same freq. (Not another HC-, tho.-dfg) (I think there was a YS- reported here once-ed.) Who's here? (Gleason, PR)
- 935 D.D.R. Burg noted with mx and deejay L&C M4 3/22 at 0520. Muffled local WITZ-940 with UCL loop, otherwise almost impossible. (Schatz)
- 935 Morocco. Agadir 3/13 0237 with man chanting and stringed instrument at 0240; YL ancr at 0253, strong signal but audio fighting heavy WPAT QRM, this was the only TA readable over the atmospherics. (Kocsan, NJ)
- 940 Cuba. Hrd 1001 3/14, ID hrd under channel mix - as to location and call I no longer attempt to reconcile and decipher conflicting logs and station lists and the continual changes on this island. Having hrd all, the only difference in the programming of Cuba, North Korea and Peking is the language used. (Kocsan, NJ)
- 960 Colombia. Radio Sutatenza, Barranquilla 3/14 1000 with 6-note IS reading' list of calls and freqs, then firmly IDing twice; as on previous day, the pgm consisted of long talks in Spanish interspersed with single Latin MoR selectoin. Strong signal over mix but fades out by 1030. (Kocsan)
- 1030 Dom. Rep. Radio Cayacoa, HILF, Apartado 1222, Calle Duvergé 78, Higüey, 1000 watts, operates 1100-0300. Hrd for the first time on a visit to the place. (Objfo)
- 1032 unID, apparently Cuban, noted 3/10 at 0030 with frequent mention of "Isla de Pinos" (not "Juventud") with youth-oriented pgms, rock music, some in English with socialist homilies and dogma interspersed between records. Rather depressing to listen to. (Gleason, P.Rico)

- \*\* 1034 unID. Very weak. Hrd 3/7, 11 and 16 from 0300 thru 0500. Soft language and could be Portuguese but bearing is 110° and is far too much for Parede which is a dead 68 degrees here. Not even the 665 signal was readable from Portugal on any of the three nights, anyway. Thought it might be East Rand, but no English - do they ever go to Afrikaans on this freq? Bearing is right on the nose for them, and for Portuguese Guinea for whom the bearing is also correct but, acc WRTVH, this latter has only 1 kw and s/on at 0600. (Hoffman, NJ) (Sure seems SA likely Bob as 1286 was also tentatively rptd around that time by Jacobs in Philly. -ed.)
- 1035 unID. Someone hetting the Haitian here on 3/11, probably the Panamanian as that would correspond to good E-W reception on 3/11. (Gleason, PR)
- \*\* 1040 Dom. Rep. HION, Santo Domingo, is Radio Ahora again. (Objio)
- 1045 Panama. HOJ2, Ondas del Canajagua at 0052 3/11 loud with pgm of community events and typical Panamanian mx, e.g. same as on 1115. (Gleason)
- 1055 Colombia. Radio Valledupar, Valledupar 0200-0400 with exclnt sig, Caracol pgms and local IDs. (Gleason)
- 1057 Colombia. Radio Bucarica, HJGU, Bucaramanga. 3/18 0230-0300 with a discussion of various topics of national interest such as the Pan-American Games, and the political situation. They repeated the same block of spots every 4 or 5 minutes. (Gleason, PR)
- 1080 Venezuela. Radio Barcelona at 1000 s/on 3/15 with Venezuelan NA and folo by another anthem or theme song. (Hauser, Texas)
- \*\* 1089 Cuba. RFS has nothing listed on 1090 so what is this? Was clobbering XERB, poor thing, with a distorted signal but no hetrodyne, 1059 3/15 with "el rapido de las 5 y 30" and was // 640. (Hauser, Tx)
- \*\* 1091 Dom. Rep. Radio Amistad, Licey al Medio, drifting from 1090 on 3/5 (Objio)
- 1100 Antigua. ZDK with frequent IDs and at 1023 3/15 was offering \$11.00 for news tips. (Hauser)
- 1145 Colombia. Radio Cristal, Medellin at 0205 3/18 with the results of the drawing of the lottery of Cucuta, was // with La Voz del Norte-1340 and La Voz de Bucaramanga, plus one other not clearly hrd named. (Gleason)
- 1148 unID. Looped HJ-, 0220 3/18, definitely Spanish, with an all-talk pgm, seemingly a commentary. (Gleason)
- 1210 Venezuela. Radio Coro, YVMN, at s/on 2/7 at 1000 completely in the clear, and was moderately strong. (Millar, Wash. state)
- 1214 England. BBC-1 with pop mx and deejay 0555 3/22, ID 0600. (Wood, La)
- 1225 Costa Rica. Radio D-B, San Jose ID clearly hrd, 0400 3/18 saying, "Radio D-B, diez kilowattios de potencia, San José..." and this was the best TI- signal hrd on the band. (Gleason)
- \*\* 1230 Colombia. Radio Calidad, HJLK Cali with lots of pop mx and ID at 0738 and this is a move here ex-1235 kc. (Objio)
- \*\* 1235 Bermuda. ZEM-1 no longer AN, apparently, as hrd s/off at 0611 on both 3/18 and 19. Has newscast 0600-0610 then a brief anmt and GSTQ. OC remains on for a few minutes afterwards. (Sullivan, Mass)
- @ Noted orchestral version of GSTQ at 0600 3/22. (Wood) (Note item recently in IDX pertaning to expected move of this one to 1230, if U need..)
- \*\* 1240 Dominican Rep. Radio Sol, Higley is now on the air, call is HIRM. They were formerly operating on SW but are now on MW only. Info later. (Objio)
- 1240 Bahama Is. ZNS2, Nassau, noted at opening SM 3/21 at 1300 giving name as "Radio New Providence" and this is the only time I have hrd this slogan. The standard ID is "This is your fine-music station in the Bahamas, ZNS2, AM and FM in Nassau." The format is MoR mx with the "Bahamas Radio Network" news on the hour at which time they are // 1540. There has been no reply to my request for them to move to 1245 kHz. (Schatz)
- 1245 unID. Hrd 0310 3/18 with Latin romantic mx and shallow voice modulation; format fits the Quito station, but doubt it due to power; the other HC-stns not particularly strong. Anyone else rptd here? (Gleason, PR)
- \*\* 1270 Dom. Rep. Radio Ambiente, Calle Presidente Billini 21, Bani, sked 1045-0400. Has 500 watts. Director is José A. Peña G.; began testing on 3/15; no call ltrs assigned yet; Teléfono 447. (Objio, D.Rep.)
- 1285 Nicaragua. YNRPS likely 0254 3/14 with heavy beat LA mx, amnts. 0305 NA and off 0308. However, at one point, seemed to mention Chiclayo (Peru). Will have to check out anthem. (Hauser, Tx.)
- 1306 Suspect Cuba here. 0350 3/18. Accent indicates this, as does the format. Talk, TC every minute, ment of "Reloj"; would fit RFS listing. (Gleason)
- \*\* 1320 Cuba. unID "Reloj Nacional" hrd MMs with WGMA silent. Possibly CMKL from 1200 as latter not hrd there recently. (Schatz, Fla.)
- 1340 Guantanamo Bay. AFRTS alone except for traces of CMGU MM 3/22 using UCL loop to muffle everything N and W. Immature-voiced deejay played old chicken rock and gave every time check with the expression "before (after) the hour of ..." and were in AST. No definite ID noted in 50 minutes of taping. Unable to hear them with standard loop. Young deejay makes the stn sound like an outlaw. (Schatz, Fla.)
- \*\* 1348 Haiti. Stn hrd at s/off with NA at 0200 on 3/12, DF for Cap Haitien, suppose this is La Voix du Nord, 4VCP, drifting or moved ex-1465. (Objio)
- \*\* 1350 Venezuela. Radio Guacaipuro, YVIZ, Charavalle, s/off at 0258 with NA on 3/12 to s/on at 1200. First time hrd. Not on 1360 as per YV list appearing in 6/6/70 issue. (Objio)
- 1356 Colombia. Ecos del Río, HJHW, Puerto Boyacá hrd on 3/12 with pgm of tangos at 0230, s/off at 0302 with NA. (Objio)
- 1394 Albania. Tirana in Czech 0600 3/22; easy to identify this lang as the first syllable is always stressed. (Wood, La.)
- \*\* 1400 Colombia. Emisora Variedades, HJAS, Barranquilla, hrd IDing at 0433 on 3/15 in this manner instead of Radio Variedades; possibly a change of name. (Objio, D.Rep.)
- 1457 unID. BBC station (This is thought to be the England xmtrs here, carrying Foreign Svce -ed.) 0040 and on 3/11, powerhouse signal. Playing cl mx. 0100 gave GMT TC and BBC ID, no more This is by far the most easily receivable TA here. That evening, no northern TAs were readable except 1439. (Gleason, P.R.)
- \*\* 1459 Mexico. XEXQ, R. Universidad Nacional Potosina off freq from 1460 at 0335 3/14 with opera, synopsis at 0410; by 0420 was obviously parallel with 6045 SW altho no ID hrd. (Hauser, Texas)
- 1466 Monaco. 3AM2 with exc level (stronger than adjacent domestics) 0530 3/18 with pop mx, "Ici Monte Carlo". (Sullivan, Mass)
- \*\* 1493 unID. 0025 3/11 hrd man and woman talking in what appeared to be a romance lang, with intervals of music. IS was chimes or vibes, with an 8 or 7 note sequence; appeared to leave the air after IS. On 3/12 noted them with a poor signal at 0000 with the same IS 4 times. (Gleason, PR)
- 1495 Ecuador. Stn with a lot of pop mx with taped "Banco La Filantrópica" ads and IDing as "Radio Mil" or "Radio Mía" on 3/12 from 0300 on but too much noise. Tried them again several nights but too weak to get the correct name. (Objio, D.R.)
- 1502 Poland. I presume with Clear IS (Chopin) on the hour 3/9 at 2255-2315 and, apparently, after about 2 minutes of dead air, at 2303, a pgm in German. (Gleason)
- \*\* 1550 Australia. 4QD logged thru CBE OC 0940 3/19. Had taped 2½ hours of this freq for 10 straight days and they came in on 4 of them. Often overrode WAAY and WKFE but weak and heavy fades with short dominant periods. I finally got definite logging data on the 10th day. I also had French lang for one minute at 0935 3/19, no idea who. (Hoffman, NJ) (Great DXing, Bob. I think the FF might be possibly a Nova Scotia icebox? -ed.)
- \*\* 1560 Cuba. Radio Reloj Nacional, La Habana is here ex-1566; ID 0600 3/15. (Objio)
- \*\* 1589 Mexico. To answer a Floridian's question, and correct my previous rept, the variant here is not Monterrey, but listed (100 watts night) XEPT, Misantla, Veracruz. Hrd on 3/14 at 0329, with Mexican mx and amnts, off at 0335. Msd about 1588.5 this time. (Hauser) --Have 2 reports of veries from ZDK-1100 and some changes; e.g. KEYR to switch to 700. Details on this next week. Also a suggestion to return IDX to EST will be run.



**USA****VOP**

"LA VOZ DE LA ESPERANZA" DOMESTIC SS LOG: Researched by Jay Murley;  
Compiled by Harry Helms, Jr. for NRC/IRCA

"La Voz de La Esperanza" is the SS equivalent of the "Voice of Prophecy"  
program. The format is similar; it is hosted by B. Perez Marcio. Times  
EST; all on Sunday unless otherwise indicated.

ARIZONA

KIFN Phoenix, 860 kHz, 1130      Pattern of listings: call, loc, freq & time  
KEVT Tucson, 690 kHz, 1100

CALIFORNIA

KICO, Calexico, 1490, 1030  
KWAC, Bakersfield, 1490, 1130  
KGST, Fresno, 1600, 1530  
KAZA, Gilroy, 1290, 1300  
KALI, Los Angeles, 1430, 2030  
KWKW, Los Angeles, 1300, 1130  
KOXR, Oxnard, 91C, 1600  
KCAL, Redlands, 1410, 1130  
KSEE, Santa Maria, 1280, 1230

COLORADO

KFSC Denver, 1220, 1730

CONNECTICUT

WILI Willimantic, 1400, 1930

FLORIDA

WQBA Miami, 1140, 0900  
WSOL Tampa, 1300, 1630 Saturdays

IDAHO

KCID Caldwell, 1490, 2330

ILLINOIS

WEAW Chicago, 1330, 0830

NEW JERSEY

WWBZ Vineland, 1360, 1905 Thursdays

NEW MEXICO

KABQ Albuquerque, 1350, 1030  
KSYX Santa Rosa, 1420, 1330

NEW YORK

WHOM New York, 1480, 1300

TEXAS

KUNO Corpus Christi, 1400, 1000  
KGBT, Harlingen, 1530, 2230  
KLVL, Houston, 1480, 1130  
KVOZ Laredo, 1490, 0830  
KCOR, San Antonio, 1350, 2000

**LA LOG!**

**\$ 2.50 RELIABLE 1st class ONLY**

The NRC Latin American Log is now available to those NRC members who have reserved copies. For the first time there's finally a single by-freq reference source giving the power, location, slogan, and address of all stations in South and Central America. The NRC LA Log contains 78 pages of basic by-frequency info, 4 pages of update information to bring the NRC LA log up-to-date as of April, 1971; 5 pages of verification signers; unique articles on the Spanish number and alphabet pronunciations, how to obtain QSL's from LA stations, names of common LA commercial products for better QSL returns, Latin music types, call-sign patterns, ID'ing time checks from LA stations, & much more..!



**A BOX!**



PATTERN CONTROLLED LOOPS  
FOR THE MEDIUMWAVE DX'ER

\*Gordon P. Nelson

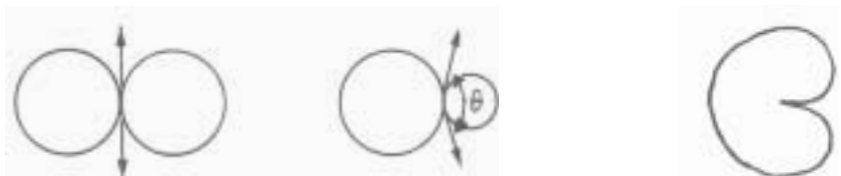
INTRODUCTION. As most loop buiders have discovered by accident, it's possible for a loop antenna to exhibit a directional pattern with nulls which aren't exactly 180° apart, or of the same depth, or both. "Skewed" patterns are generally undesirbale for most BCB DX'ing applications because such distorted loop patterns inevitably show inferior direction-finding and nulling properties. In particular, the ability of a loop antenna to totally eradicate signals from powerful local stations is seriously degraded by even a very slight amount of pattern skewing (see LOOP DISTORTION - WHY GET SKEWED?; DX NEWS, 12/17/70 for a detailed discussion of this problem).

We have discussed the origin of pattern distortion in loop patterns in past issues of DX NEWS and have offered a number of practical suggestions for improving the pattern properties of existing loop designs. A fully balanced and symmetrical loop such as the FET Altazimuth design can exhibit a pickup pattern which is indistinguishable from that of an ideal cosine loop within the limits of practical measurement (nulls greater than 80 decibels in depth and within 0.05° of symmetry) - but only if considerable care is taken in construction and adjustment. Cleaning up a skewed loop pattern to improve null depth and symmetry often requires quite a bit of thought and experimentation but the results are well worth it.

After a few hours of tinkering in an attempt to clean up the pattern of an ailing loop the following intriguing thought has no doubt crossed the minds of quite a few members. Even though skewed patterns are the result of careless design or loop construction, why shouldn't it be possible to intentionally control the amount of skewing in order to position the nulls where they will do the most good?

Suppose you're stuck with two semilocals on a particular channel; unless they happen to be colinear (that is, lie in the same direction or 180° apart at your location) you'll never be able to null them both out with an ordinary loop; either one, yes - both, no. Suppose instead you were able to set the nulls to any desired angular separation instead of being limited to one fixed value such as the usual 180°? Proper adjustment of the pattern could result in a pattern with a null in the direction of each interfering station! Carried to the logical extreme, it should even be possible to skew the pattern nulls so greatly that they would appear to be superimposed; this would give a loop pattern with only one effective null. The benefits for the MW DX'er of such a controlled pattern loop would be great indeed...

The mathematical theory describing the simple single-nulled loop pattern (also called the cardioid pattern because it's roughly heart-shaped) was worked out many years ago; both the equations and considerable experimental data were presented by Beverage in the same classic 1923 IRE paper introducing the Beverage antenna. Simple cardioid loop circuits have been in use in all loop-based radio



Normal undistorted cosine loop pattern; nulls exactly 180° apart.

"Skewed" loop pattern; nulls are separated by  $\theta$  degrees; in a pattern controlled loop this angle could be altered at will.

Basic cardioid pattern; the angle  $\theta$  of the skewed loop has been reduced to zero, thus superimposing the nulls.

DF gear since the 1920's and are included in most radio navigation systems using the loop antenna as the basic directional element. The use of the cardioid pattern circuitry has generally been limited to providing "sense" in DF and navigation systems, however; that is, to permit resolution of the 180° bearing ambiguity common to all cosine (figure-8) loop patterns. In most loop-based DF systems, the exact bearing is taken with the loop operating in the cosine mode and the cardioid circuitry is brought into play only to resolve the bearing ambiguity by converting the cosine pattern into a rough cardioid shape. The question of why such direction finders are not simply operated in the cardioid pattern mode continuously is a fundamental one and the answer will become clear later in this article.

While the ability to resolve the ordinary 180° pattern uncertainty is useful if you're trying to distinguish between a weak TA and LA carrier, for example, the BCB DX'er actually wants much more from a pattern controlled loop: he wants to be able to quickly and easily control the angular separation between the nulls - and this includes the cardioid pattern as a special case. Because the equations and descriptions of the basic cardioid loop pattern have been discussed in many radio texts over the years (Terman, Bond, et al.), quite a number of technically inclined DX'ers have experimented with loop patterns and have attempted to build practical cardioid loops. The great DX magazines of the Thirties such as RADEX featured items on loop experimentation from time-to-time, and a number of NRC'ers have discussed various types of intentionally induced loop pattern distortions here in DX NEWS over the years. The author has been working with various types of controlled pattern loops for some years in connection with the design optimizations for the Altazimuth loop design and we'll present a few of our findings - both theoretical and experimental - in this article. In particular we'll attempt to explore some of the basic problems and limitations inherent in the practical controlled pattern loop, explain why these loops often behave "strangely", and offer some suggestions for future research.

THE BASIC CARDIOID LOOP. The point of departure for the Seeker-After-the-Dream-Loop is what we'll call the basic cardioid. By this

we mean the simple equations and circuits for the cardioid pattern to be found in many textbooks - a highly simplified treatment which neglects a number of difficult problems which arise in the Real World, as we shall see...

An hour in the library will teach you that all need be done to produce a loop pattern with any desired amount of null skewing is to combine the signal from the loop with the proper amount of signal from a vertical antenna (with an appropriate phase shift) By adjusting the amount of vertical signal until it exactly equals that from the loop and fixing the phase relationship properly - presto! - a cardioid loop with but a single null. It all seems very simple until you try to do it - then the real fun begins...

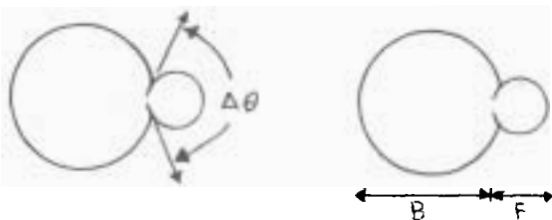
Before exploring the complications which arise when you attempt to construct a practical controlled pattern loop suitable for general CCB DX'ing applications, a bit more discussion of the basic cardioid equations is desirable.

Our recent article on Loop Distortion (op. cit.) included a set of equations which we derived to explain the relationship between electrostatic pattern distortion and null skewing and depth. Although our particular derivation was concerned with the effects of small amounts of skewing on loop performance, the equations we derived also describe the properties of the basic cardioid and controlled pattern loop (the final pattern equations are the same as those derived by Beverage, et al., although our approach was somewhat different). These simple equations suggest that the construction of a practical controlled pattern loop should be quite trivial; although this is not actually the case as we'll see when we re-derive the equations taking additional effects into account, it's definitely worthwhile to delve into the basic cardioid as a warm-up for the full treatment...

Suppose we take a loop antenna with a perfect cosine pattern (the Altazimuth is good enough in practice) whose output voltage for a particular signal in the peak direction is given by B volts, and combine its signal with that from a perfectly omnidirectional vertical antenna whose pickup for the station in question is equal to E volts. Furthermore let us control the phase of the signal from the vertical so that it differs from that of the loop by some amount  $\phi$  degrees. The angular separation of the pattern nulls is then given by the expression:

$$\Delta\theta = 2 \cos^{-1}(-E/B \sin \phi) \quad [\text{Equation 1}]$$

in keeping with the following conventions:



(see Loop Distortion, op. cit., for the derivation)

The RMS voltage pickup in any particular azimuthal direction  $\theta$  is then given by:

$$V(\theta) = \sqrt{1/2 B^2 \cos^2 \theta + 1/2 E^2 + BE \cos \theta \sin \phi} \quad [\text{Eq. 2}]$$

And the pickup ratio (in db) between the smaller lobe and the larger (analogous to the front-to-back ratio used in the discussion of more conventional types of antennas) is then given by:

$$B/F = 20 \log_{10} \sqrt{\frac{B^2 + E^2 - 2BE \sin \phi}{B^2 + E^2 + 2BE \sin \phi}} \quad [\text{Equation 3}]$$

What does this mean in terms of actual numbers? As we showed in Loop Skewing (op. cit.), we must fix the phase angle  $\phi$  equal to  $90^\circ$  if we wish to obtain unblunted nulls. For the moment let us assume that we have been able to get an exact  $90^\circ$  phase shift between B and E; what is the effect of increasing the amount of vertical antenna pickup? Let us define the quantity R to be the ratio of vertical to loop signal (= E/B) and see what happens to the resulting pattern as we vary the amount of vertical pickup.

The following table shows the effect of varying R from zero to unity. The first column is the value of R for that particular pattern; the second gives the amount of angular separation between the nulls; and the third gives us the ratio between the smaller and larger lobe peak pickups.

VALUE OF R	NULL ANGLE SEPARATION	MINOR TO MAJOR LOBE	
0.0000	180 DEG.	0 DB	(NORMAL COSINE PATTERN)
0.0001	180.0 DEG.	-0.00 DB	(ROUND OFF EFFECT)
0.0010	179.9 DEG.	-0.02 DB	
0.0100	178.9 DEG.	-0.17 DB	
0.1000	168.5 DEG.	-1.74 DB	
0.2000	156.9 DEG.	-3.52 DB	
0.3000	145.1 DEG.	-5.38 DB	
0.4000	132.9 DEG.	-7.36 DB	
0.5000	120.0 DEG.	-9.54 DB	
0.6000	106.3 DEG.	-12.1 DB	
0.7000	91.15 DEG.	-15.1 DB	
0.8000	73.74 DEG.	-19.1 DB	
0.9000	51.68 DEG.	-25.6 DB	
0.9900	16.22 DEG.	-46.8 DB	
0.9990	5.125 DEG.	-66.8 DB	
0.9999	1.620 DEG.	-86.8 DB	
1.0000	0 DEG.	-∞ DB	(BASIC CARDIOID PATTERN)

The above table shows a number of the characteristic properties of the pattern controlled loop quite effectively. Note that for very small amounts of vertical pickup the angular separation of the nulls changes quite rapidly; this is the extreme sensitivity of a cosine loop to electrostatic imbalance which was discussed at length in Loop Skewing (op. cit.).

(Continued next issue)

LATEST (11/70) HOLIDAY INN STATION LIST

620 KTAR - AZ	980 WSIX - TN	1240 WWCO - CT
680 WPTF - NC	1060 WNOE - LA	KAKE - KS
730 CHYR - GN	CFCN - AB	WBAX - PA
760 KGU - HI	1090 WBAL - MD	1320 KXYZ - TX
770 KOB - NM	1110 WBT - NC	1360 WKMI - MI
790 WTAR - VA	1150 CHSJ - NB	1370 WSPD - OH
WMC - TN	1170 WCOV - AL	1400 WICK - PA
WLBE - FL	1200 WOAI - TX	WGIL - IL
KGHL - MT	1230 WJNO - FL	WBIZ - WI
850 KOA - CO	WERI - RI	1430 WLAK - FL
1450 WOON - FL	1500 KSTP - MN	
WMFJ - FL	1530 KFBK - CA	
1470 WBIG - NC	1600 WUNR - MA	

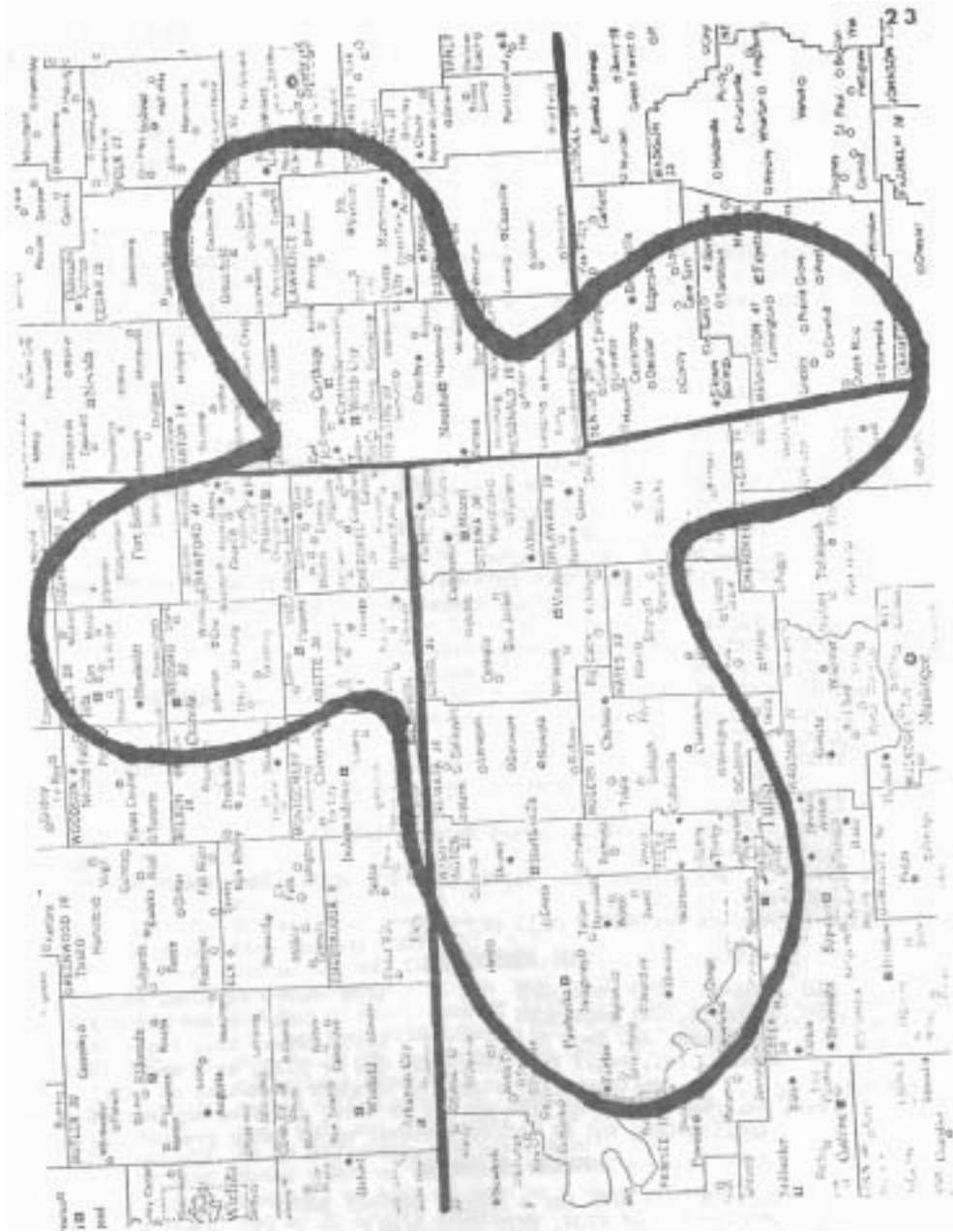
PLEASE BE SURE TO SUBMIT ANY CHANGES TO THIS LIST TO DDXD, SO THAT WE MAY NOTIFY ALL MEMBERS OF THEM. SINCE HI LISTS ARE SOMEWHAT OUT OF DATE BY THE TIME WE CAN GET THEM, CHANGES MAY HAVE ALREADY OCCURRED. NEXT LIST SHOULD APPEAR SOMETIME IN MID-JUNE, 1971. -RJE

RADIO **KGLC** 910 KC

1000 WATTS

MIAMI, OKLAHOMA

John Tull - K.C. - MO.



Kglc Miami, Oklahoma 910 Kc



## EDITOR:

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WYOMING, N.J. 07470  
(201) 385-0397

Greetings, again - lo and behold your editor has actually found it possible to once again DX ( what's that, hi ) and therefore a celebration is in order, or something like that. This time, a few changes in order dictated by the available time to type the column. The "D" section will come first, wherein may be found the results of some of the calls and/or letters I sent to stns. re CP's:

## changes

- 570 WFAA-TX Will be NSP when at new XR site this summer (Paul K. Hart, Ft. Worth, Tx)
- + 660 KOWH-NE ex-KOZN  
680 CHFI-ON Target date for CP is 5/1/71, per stn.  
+ 700 KEYR-AK CP: 1000/500UL, po: 1270  
+ 800 WSST-FL new call: Largo  
820 WBAF-TX Ditto WFAA-570 (Hart)  
+ 860 WUCR-TN new call: Sparta  
940 WFNC-NC GE pens that info as to when CP will be on is "between the stn. & FCC," and therefore won't tell us .  
+ 960 CFAC-AB CP is on (stn)  
1050 WPMH-VA Per stn., target date is 6/1/71.  
1110 WHYI-IN Per stn., target date is 5/1/71.  
+1080 KRLD-TX SCH: 24 hrs., SP MM 0200-0600 Per stn. (Hart)  
1170 WMVI-NY Per stn., target date is 9/1/71.  
+ 1220 WKTZ-FL ex-WDCJ  
1240 KFLY-OR Has been granted temporary operations under interim co-operative ownership by competing applicants.  
+ 1340 KIHN-OK CP: 1000/250 UL  
1430 CKFH-ON Per stn., target date is 6/1/71.  
+ 1450 KAWT-AZ CP: 1000/250 UL  
+ 1520 CP -MA Greenfield, 01301; 5000 D3; ADD: 4 Bank Row.  
+ 1530 WFIC-VA CP: DL  
1600 + WPDC-PA ex-WEPN (still off air)

## call applications

- 710 WQSA-NC (CP) req: WZOO 1150 Morro Bay, Ca. req.: KBAI  
850 Cuthbert, Ga. req: WCUG (not a grant per any sources)  
970 Fairbanks, Ak. req: K1AK 1240 Globe, Az., req.: KNJB  
Wabash, In., req.: WAYT (dunno if 600 or 1510, as I can't find the applicants for either to compare w/ notice on this)  
Drew, Ms. req. WDRU - no info at all on this, not even any record of an application, and no notice whatever of it being granted....

## sunset &amp; evening

- 1270 WLIK-TN O/u WXYZ for a change 0200-45 3/10  
1290 WTOG-GA In w/ WVOW, WHIO 2050 3/10  
1460 WRAD-VA In as usual all eve 3/10 ( normally, we don't run usual items - RJE)  
1560 WDXR-KY O/u WQXR 2100 3/10  
1580 WCLS-GA Alone 2110 3/10.  
1590 WNTC-SC o/WETT for new log 2116 3/10  
(all of above from Max Briggs, Youngstown, Ohio)

- CHANGE: WYNS-1150 to 4th MM 0130-0145 ALL MONTHS (RJE)  
CHANGE: WHSC-1450 to 4th MM 0130-0145 TT & Phon. ID's. (RJE)  
r/c's DELETE: 2nd FM: WSEL-1440-Ms (Hart - per stn.)  
ADD: 2nd VM: WGHQ-920-NY 0020-35, OC, brief TT, 1 ID (RJE-per stn.)  
2nd TU: WMVB-1440-NJ 0100-0115 TT (3Tu @ 3M) (RJE-per stn.)  
3rd FM: WVOS-1240-NY 0010-0015 TT (RJE-per stn.)  
TENT. CHANGE: to 4th MM 0200-0215 WBIR-1240-TN w/TT (NRC) also hrd 3rd MM  
TENT. ADD.: 3rd MM: WPJD-1550-TN 0245-0300 w/TT (Boyd - hrd sev. mos., annc'd as ET)

3MM: WBIR-1240 (see above); WTHB-1550; KXEO-1340; KVOP-1400; WCLC-1260;  
3TU: WAHT-1510  
LMM: KTHS-1480; WMSB-1060; WMBG-1590; WDOE-1590; WIVE-1430; WNAK-730;  
WBCB-1490; WFEC-1400; WTON-1240; WBYX-1240  
ATU: WPED-610; WAYB-1490;  
LWM: WKXI-1410; WBPY-1440; WAZA-1360

## midnight to sunrise

- 570 KVI -WA Hrd well, only second time ever for nice tape ID 0330-35  
3/15 (Hart) town, Oh)
- 770 WABC-NY Noted w/ OC, TT 0133, then off 0205-55 3/12 (Wes Boyd, Youngs-  
790 KCEE-AZ Hrd 0340 3/15 w/ ID in cl mx pgm. Anyone know their SP? (Hart)  
830 WNYC-NY Hrd ET 0033 t/in to 0045 3/23 (RJE)  
850 WJW -OH S/on SSB 3/16 AM, was off 0100 (Boyd)  
900 WLMD-MD W/ regular ET 3/22 0040 w/ WWV-type tones: 1 sec. on, 1 sec. off. (RJE)
- + 940 KIXZ-TX M1 SP starts 0130 - hrd s/off 3/15 (Hart)  
WYLD-LA Almost alone 3/16 AM, no sign CUGX, WINX, KIOA. (Boyd)  
970 WJMX-SC TEST poor here due to W/SW.. best 0220-0225 3/15 (BOYD)  
1000 KOMO-WA Exc. level, 3/8 0208-0220 w/ MoR, little talk. Killed by  
WCFB test 0220 (Phil Sullivan, Leominster, Ma)  
1080 KRLD-TX Smashing WEEP/WKLO as early as 0545 3/16 (Boyd)  
1090 WKTE-NC IRCA test hrd 3/11 0305-0330 w/ fairly gd sigs., TT. mx. &  
ID's follo each record (Tom Sundstrom, Willingboro, NJ)  
1110 WBT -NC Noted off 0030 to almost 0300 3/15, maybe a 3rd M1 SP? (Boyd)  
+ 1240 WHIZ-OH Sunday AM s/on 3/14 0645 w/ SSB (Boyd)  
1250 KTBC-MO Hrd w/ mx & spots thru WTAE 03 0631-34 3/14 (Boyd)  
1260 WFBM-IN Test copied 0230 3/15 w/ ID - think overlapped WCLC r/c -  
must've been non-DA (Hart)
- 1340 WKGN-TN Hrd w/ ID u/ the mess whilest checking for r/c's 0107 3/22 (RJE)  
WOOB-DC Atop channel 0109 3/22 (RJE)  
1360 WBAY-WI Hrd w/ nx, wx, ID taped nicely 0158 3/22 (RJE)  
WKAI-MI Hrd w/ notorious HI pgm 0205 3/22 (RJE)  
WNNJ-NJ Had PoP or extr. long ET 3/22, hrd atop all w/ TT, OC much  
of time from 0156 t/in to 0215 t/out & several times later (RJE)
- + 1380 KUDL-KS Must be AN MM, as in well to 0402 3/15 w/RS, few ID's and w/  
KWK silent (Hart)
- + 1400 KATI-WY Copied 0207 s/off 3/15, annc. sez 24 hrs, off 0207-0700 MM's,  
Wyo. # 3, and a 250-watt GY'er at that (Hart)
- + 1410 KRIG-TX MM SP 0200-0600, hrd s/off annc. 3/15 (Hart)  
1420 KTOE-MN Noted u/WOC w/ tele-talk thru WHK's holes 0030-40 3/12 (Boyd)  
WTCR-KY Hrd 3/14 0648-53 w/ farm nx & spots, smashing WHK (Boyd)  
1430 WLAK-FL Hrd w/ HI o/WIVE r/c 0151 3/22 (RJE)  
1450 CHEF-QU Atop channel briefly w/ sx, wx and extr. muddy audio 3/25  
0052 (RJE)
- 1470 WBIG-NC W/ farm show 0500-0520 3/16, another HI bited the dust..  
(Boyd) \*\* or maybe HI just ends 0500... -RJE  
1480 WYZE-GA S/on copied wk 0556 3/14 u/ KBOX OC. (Hart)  
KBOX-TX ET noted in progress 0446 t/in 3/14 w/ mostly TT, w/ daytime  
5 kw. RS @ 0600 again. This is not regular, only a yearly PoP  
(Hart)



1490 WDLG-NY Hrd w/ PoP0022-27 (t/in-t/out) 3/22 & again ard 0200 3/23  
 Subsequent call showed that PoP ran 3/22 0000-0401 & 3/23  
 0000-0130 & 0200-0245 (RJE)  
 1550 KKHI-CA Best copy all season w/ s9 peaks 0240-0300 3/16, only wk.  
 WAAY after 0300 (Boyd)  
 1580 WSRF-FL Uncommonly strong atop channel 0056 3/22 (RJE)

Thassit for now, so 73's

RJE


SPECIAL PROGRAMS:

MON. APRIL 19 : 0100-0130. WWLE-1170, Cornwall, N.Y. w/ 1000 D3. Will  
 run code ID's, some TT, talk, mx, & will accept non-  
 collect calls. WWVA should be off, so this may get  
 out somewhere. Probably RJE at the mike for this. May  
 have been listed previously as 4/22, but Easter forced  
 change after info submitted.  
 MON. May 3 : Sometime between 0030 & 0130, WDLG-1490 in Port Jervis,  
 N.Y. will air a semi-regular f/c w/ Cambridge Crystals  
 in MA. CE Walter Holois can't be more specific, as his  
 time is determined by Cambridge that AM. Will run TT,  
 mx & ID's for simulcast AM/FM f/c, and should run be-  
 tween 15 and 30 minutes. (RJE)

PLEASE DELETE ALL PSA POWERS LISTED WHICH ARE HIGHER THAN 500 WATTS.

600	KROD-TX	NET: Ae	1220	KASY-WA	pl68
620	WVNJ-NJ	NET: Ai	1230	KCON-AR	SCH: 0630(0600)-2315 (2030)
-	WTMJ-WI	SCH: 24 hrs., SPM1 0300-		KFPW-AR	ZIP: 72901
630	KHOW-CO	NET: Ae		KDAC-CA	CP: 1000/250 U1
660	KOWH-NB	ex-KOZN		KRDG-CA	CP: 1000/250 U1
710	KGNC-TX	SCH: MM SP 0105-		WBLJ-GA	SCH: 0600-2355; NET: M
730	WJMW-AL	pll7		WKLK-MN	SCH: 0700-0100
	KSUD-AR	clar stat		KYSM-MN	ADD: Box 1240
	WLOR-GA	p26		KLAV-NV	CP: 1000/250 U1
	KTRY-LA	p50		WERI-RI	SCH: 24 hrs, SP MM 0000-
	WVIC-MI	pl60			
740	WMBG-VA	ex-WBCI	1240	KTLO-AR	SCH: 0600(0700)-2330 (2200)
800	WMBY-AL	pl179		WIBU-IN	ADD: 640 Citizens Bank Bldg.
	WSST-FL	new call, Largo		KAKE-KS	ADD: Box 1240; SCH: 24 hrs, SP MM 0100-0600
	WJAT-GA	p500		WMFG-MN	SCH: 0700(0900)-0000
	KXIC-IA	ph28		KPRM-MN	ADD: Box 49
	WKEE-WV	p216		KCCR-SD	SCH: 0700(0800)-0000
810	KCMO-MO	SCH: NSP		WTON-VA	ADD: 306 W. Beverly St.
850	WYDE-AL	ANT: U4		WONT-WI	SCH: 0600(0600)-0105 (0005)
	WVJC-MN	Is CP. Clar. prev. info.			
860	WUCR-TN	(CP) Sparta, 38583, 250 DI		WJMC-WI	SCH: 0700(0830)-2300
900	WEAS-GA	p229	XX 1230	WHYI-WI	ADD: 600 S. Lawe
	WLSI-KY	p376		WCLD-MI	ADD: 1 So. Park Dr.
	WKJK-NC	p500		WECO-MI	ZIP: 54401; SCH: 24 hrs M SP 0100-0700
	KMCO-TX	pll7	1280	WEIN-MA	SCH: MM s/off 0000
	WAFG-VA	p250	1310	CP -WV	White Sulphur Springs, 24986; 5000 DI
940	KIXZ-TX	SCH: SP MM 0130-		CFOM-QU	CP-delete, will remain on 1340.
	WECO-TN	p234			
960	WFGL-MA	SCH: MM s/off 0000	1330	WEVD-NY	SCH: is now on Tues AM
	CFAC-AB	CP is on.		WEAZ-NY	ANT: DI
980	WITY-IL	SCH: 0630-0205	1340	KBTA-AR	SCH: 0630(0730)-0000
	WONE-OH	SCH: NSP		KZNS-AR	ADD: Box Q
990	WNOX-TN	SCH: NSP		KBRB-AR	ADD: Box 47; SCH: 0600- (0800)-0100
	WLKW-RI	NET: Ai		WBHC-CT	SCH: 0515(0600 Sa & Su) -0200(0225)
1050	WAUG-GA	p84		KVBR-IN	ADD: Ransford Bldg.
	KUPK-KS	p27		KDIN-MI	SCH: 0630(0800)-0000 from Mem. Day to Labor Day off 0200
	WHN -NY	SCH: NSP		KROC-NH	ADD: 601 First Ave. SW; SCH: 24 hrs, SP MM 0100 -0630
	KPKL-TX	p 15.5			
1070	KENR-TX	CP: 10000/5000 U3		WEVE-MN	SCH: 0700(0830)-2315 (0030 Sun)
1080	WEPP-PA	LOC: Pittsburgh			
1090	WBZB-NC	pl6		KWLP-NV	SCH: 0630(0800)-0105
1110	WKQT-LA	CP is on.		WSXL-CA	ANT: U5
	WBT -NC	NET: De lete		KTLP-NY	CP: 1000/250 U1
	KBND-OR	p500; CP is on		KHAP-NY	SCH: s/off 0200
1150	WYNE-WI	CP is on,		KGPC-ND	SCH: 0700(0600)-0100 (1900)
1170	KVOO-OK	SCH: del. SP		KIEM-OK	CP: 1000/250 U1
1220	KVSA-AR	p50			
	KIBE-CA	pl70			
	WKTZ-FL	ex-WDCJ			
	WSAF-FL	p305			
	WAVN-MI	p361			
	WHDC-MS	p66			
	WENC-NC	p500			
	WKBK-NH	p500			
	WSOQ-NY	p500			

**YES,**

You Heard  in Shenandoah

PAGE COUNTY IOWA, U. S. A.

"Heartbeat of the Corn Country"

Established 1923

Basic Cable Network

1000 watts — 980 kilowatts

The program you heard March 27, 1971 checks with our log.

Date 3-29-1971

Radio Station K M A

John Tull - K.C. - MO.

1340 KIJV-SD SCH: 0645(0825)-0100 (2330)  
 WJMA-VA ADD: Spier Mill Rd.  
 WLDY-WI SCH: 0700(0800)-0000 (2200)  
 WRIT-WI SCH: 24 hrs NSP  
 1350 WEGA-PR CP: LOC: Vega Baja(cl)  
 KSRO-CA SCH: s/off 0300  
 1360 WCHQ-PR Camuy, 00627; 1000 DL is on.  
 1370 WLOV-GA Clar call  
 WGHM-MI delete CP  
 WPRC-IL CP is on  
 CP -BC Burnaby, 10000 U4 (erroneously listed 1470)  
 1380 KATB-AZ CP: 5000/500 U2 (po: 1230)  
 WIZO-FN p500  
 KAGE-MN p500  
 KUDL-KS SCH: 24 hrs., AN MM  
 1400 KELD-AR SCH: 24 hrs., SP MM 0100-0630  
 WSTC-CT ADD: 270 Atlantic St.  
 WILLI-CT SCH: 0530(0600)-0100 (2300)  
 WBAT-IN ADD: 120 N. Miller Ave., SCH: 24 hrs, SP MM 0000-0530  
 KVOE-KS ADD: Box 968  
 WCYN-KY CP: 500/250 U1  
 KEYL-MN ADD: 15 So. 2nd  
 KXGN-MT CP: 1000/250 U1  
 KNOR-OK CR: 1000/250 U1  
 KTMC-OK SCH: 0645(0800)-0000 (0030 Sa, 2230Su)  
 KBJM-SD SCH: 0800(0930)-2200 (2000)  
 KIXX-UT CP: 1000/250 U1  
 WHLF-VA ADD: Box 526  
 WATW-WI ADD: Box 269  
 WBIZ-WI ADD: Box 24; SCH: 24 hrs. SP MM 0200-0600  
 WRJN-WI ADD: Radio Park; SCH: 0645(0800)-0100  
 WRDB-WI ADD: Box 309; SCH: 0700 (0900)-2300(1900)  
 WRIG-WI SCH: 0600(0800)-0100 (0200 Fri, Sa; 0000 Su)  
 KATI-WY SCH: 24 hrs, SP MM 0207-0700  
 1410 WING-OH SCH: NSP  
 KRIG-TX SCH: MM SP 0200-0600  
 1420 WAOC-FL ex-WETH  
 KTOE-MN SCH: NSP  
 1430 WIRE-IN ADD: 4560 Knollton Rd; ZIP: 46208  
 1440 WJOK-SC PWR: 5000/5000  
 KDNT-TX ANT: U4  
 1450 KENA-AR ANT: SH1; SCH: 0600-1830

1450 KAWT-AZ CP: 1000/250 U1  
 WJAB-CT ADD: 474 E. Washington  
 WELY-MT SCH: 0700(0900)-2300  
 WSWP-RI SCH: 0500-0000  
 KYNT-SD SCH: 0700(0800)-0100  
 KRIZ-WI ADD: 18 W. 1st St; SCH: 0630(0700)-0105 (2305)  
 WDLB-WI SCH: 24 hrs., SP Tues. 0100-0600  
 WRCO-WI SCH: 0630-2390  
 1460 WPVL-OH CP: 1000/500 U4  
 CJOY-ON SCH: MM SP 0105-  
 CP -BC Burnaby, delete  
 1470 WTHI-IN CP is on (really this time)  
 1480  
 1490 WANA-AL CP: 1000/250 U1  
 KXAR-AR ADD: Box 138; SCH: 0530 (0630)-1830  
 KDRS-AR SCH: 0630-2320  
 KKAN-KS SCH: 0645(0745)-2000  
 KXRA-MN ADD: 1310 Broadway; SCH: 0653-0105(0005)  
 KLGR-MN ADD: Drawer D; SCH: 0640(0755)-0100  
 WVIM-MS CP: 1000/250 U1  
 KOKC-OK ex-KRRW  
 KNDC-ND SCH: 0800(1000)-2200 (1500)  
 KWMC-TX CP: 1000/250 U1  
 KVOZ-TX CP: 1000/250 U1  
 WQVA-VA ADD: Box 672  
 WVEC-VA ADD: 1930 E. Pembroke Ave.  
 WGEZ-WI ADD: Box 416; SCH: 0630(0700)-0100(0000)  
 WOLX-WI SCH: 0700(0800)-0200  
 WOSH-WI SCH: 0600(0700)-0200 (0100 Su & Mon)  
 1500 WKBX-NC ANT: D6  
 1520 KAMX-NM PWR: 500; ANT: D1  
 ZIP: 87101  
 CP -MA Greenfield, 01301; 5000 D3; ADD: 4 Bank Row  
 WKJR-MI DELETE CH ops on 10 kw D3 CP.  
 WFIG-VA ANT: D5; CP: D1  
 WYNA-NC p7  
 WQXR-NY SCH: s/off 0020  
 WTAI-FL LOC: Eau Gallie, 32935  
 KPMC-CA SCH: 0845-0400  
 WKKS-KY p250  
 WDEM-MA p384  
 KLFK-MO p194  
 WMLQ-MA p500  
 KTAT-OK p20  
 KOHU-OR p195  
 WKUN-GA ZIP: 30655  
 KWET-OK ANT: D3; p500  
 1580  
 1590  
 1600 WPCD-PA ex-WEPN (still silent)

STEVE KAMP - 6149 Monteverde - San Jose, California - 95120  
 A good number of veries as well as new catches in, so I thought I might as well wend in a Musing. First off, Richmond withdrew their bid for the 1971 IRCA Convention, so San Diego & Toledo will fight it out for votes. San Diego/Newport Beach/San Francisco in '71! Veries: v/q- WVOK-690 Birmingham, PEK25-725 Surinam (took only 374 days, airmail at that) WCFL-1000 Chicago, CHUM-1050 Toronto, KOOL-960 Phoenix, KLO-1430 Ogden, KGEM-1140 Boise, CBE-1550 Windsor XEMO-860, & a Roycroft v/q from KKUA-690 Honolulu. v/1- KEXJ-1350 Jasper, Texas, KMMJ-750 Grand Island Neb., KAPP-930 Flagstaff, Ariz., KFIV-1350 Modesto, KMSO-1050 Wasco Cal., & KLUC-1140 for their DX TEST of 3/15. v/c- KREX-1100 Grand Junction, Col. v/f- KGMI-790 Bellingham. DX since last Muse: 2/28 evening: Logs on KFIV-1360 & XEMO-860. MM 3/1- CBE-1550 in well C 4:59 s/on w/o Canada, CFAX-1070 B.C. in well w/KNX off @ 5:11. MM 3/8- KCBQ-1170 s/off o/KVOC, KEGG-1560 Tex. ID on ET @ 3:57, CMBC-690 strong for log 4:03-4:25, KHEY ID on ET u/CMBC @ 4:11. ME 3/15- KLUC-1140 DX for NRC in strong 3:01-3:14 s/off, no mention of NRC. They called program a frequency measurement. 3/18 EST, on 1425k @ s/off 1:02, a Mexican saying would return to the air at 6am LT, call sounded like XEF but not sure. KGHC-1560 Wash. ID u/KPMC @ 9:08pm. SSS 3/20- KTQS-1560 Cal. o/looped KMP 7:55-8:03 w/rr. MM 3/22- KOS-1210 Cal. pirate strong 3:02-3:19 tuneout. They had rr, promos, a few jingles, mentioned location which I won't divulge here. It's somewhere in SCCCPSDDX country. KPOK-1000 Okla. 3:50-4am w/Voices in the Headlines, MoR, NX, poor signal. WAGL-1560 DX TEST for IRCA from Lancaster, S.C. in strong from 4:30 s/on to 4:55 s/off; had old mx, a few jingles, IDs after every record - thanks, Harry Helms! WKY-930 w/ID @ 5:26; KHJ off. CJCA-930 w/MOR 5:29-5:41. Going backwards a few mintes, CBL-740 5:05-5:15 w/MOR; KOOL-960 in w/ID @ 6, KABL on RS but nulled. WHOO-990 Fla. in w/good signal 6:03-6:13am, Ai NX till 6:04, then WX & c/w. WFAI-1560 Melbourne, Fla. #2 this AM w/an almost local-like signal @ 6:16 s/on-SSB, into promos, jingles, c/w, faded into mess by 6:29 but enough for a report. KJJO-1550 Mo. w/farm program 6:34-6:40, then into rr w/YL DJ. 73. (STEVE SENT IN HIS VERIE SIGNERS - HAVE YOU? -ERC)

JAY MURLEY - 1733 Candlestick - Newport Beach, California  
 To those of you debating a trip to this Summer's NRC Convention in San Francisco from out-of-state, we're trying to add some inducements to make it even more worthwhile. Like another club's official convention in San Diego, & a joint ERBA-SCCCPSDX Conclave (or call it something less polite if you're familiar with us) in the middle. To put it all together, it will take a strong joint member IRCA vote for a San Diego Convention. If you happen to be a joint member, we'd appreciate your support. If successful, it should increase the turnout at San Francisco. I had a pleasant visit from four regional DXers who had to examine the sea of fluorescent lighting my wife installed in here redecorating scheme. If I could harness all the noise they generate, I'd probably have to apply to the FCC for a construction permit!

CESAR OBJIO - Calle B.F.Rojas 46 - Santo Domingo, Dominican Republic  
 Hi DXers, here is some info for Domestic DXers as heard from here on 3/14 & 3/15. At 10:30pm WERA-1490 Miami Beach was heard very good despite their low power. At 11:10 WBIG-1470 Greensboro N.C.; @ 12:01am 3/15, WIM ID on 890. WBRG-960 Birmingham @ 12:25; WSIX-980 Nashville. Before lam CX were so good H/S that I logged R. Mundial, PRA3-860 Rio de Janeiro, & changed frequency to 880 to hear WCBS also on very strong. WCBS s/off @ lam & cut carrier, but about 1:15 returned and said "WCBS New York, testing on a frequency of 880 kHz" but before this I could log Union Radio, Lima, Peru on the same frequency. After that WCBS ruined the spot. WTIK-690 New Orleans @ 1:33 for my first U.S. station on this frequency, always heard Cuba here; then WHRL-1600 N.Y. @ 1:54 (how do you like that, Ernie?) A station not supposed to be on the air was testing @ 2:05 on 1530; WAAO Andalusia, Ala., not announced test. This is the second U.S. station on that frequency. I usually hear WCKY only, good for the Domestic Contest. After this I tried for the announced TEST of WJHX-970 Florence, S.C. which was also heard. I could keep on DXing but it was after 7:30am & I had to work starting @ 7:30, so I decided to go to bed & get some sleep. I will be back soon. See you all in Florida in 1972. (WAAO-1530 is its r/c, third MM, 2-2:15 -ERC)

**30**  
**CHARLES F. MOHR Jr.** - 52 Greenridge Avenue - White Plains, New York - 10605  
 "Drake Format" is a sort of syndicated Top-40 programming that is heard on perhaps a dozen or more stations across the country, including WOR-FM NYC, WJMK-880 in Boston, KRLJ in L.A. & CKLW-800 in the Motor Cities. You may have noticed in listening to some of these stations, that except for the call letters, they sound exactly the same. They are characterized by such things as 20-20 NK, Million Dollar Weekends, and a very limited record play list, the latter being the object of a lot of criticism. "Drake Format" is the format of a fellow on the WC by the name of Bill Drake, and it's rumored he receives a fee of up to \$100,000 a year from each of the stations using his format as "programming consultant". It is also rumored he has a monitoring set-up of all these stations in his home in Bel-Air and is constantly checking up on his product. I believe most or all of the RKO-General stations use this format. He is also involved in the training of DJs for these stations, and you may also have noticed they, all seem to sound the same. I got this info from an article called "Captain Pimpie Cream's Finnish Plot" by Harry Sherer, in a book called "The Age of Rock", edited by Jonathan Eisen (New York: 1969, Vintage Books V-535, a subsidiary of Random House, \$2.95). I can't help but notice the success of ERC in verifying SS stations - I have access to several good SS report models, but my problem is that I don't know any SS phrases to describe program details, etc. in the report. I think such a glossary of phrases would be a good thing for inclusion in DX NEWS. Since rejoining the NRC in 3/69 I don't think I've seen such a feature. I would be willing to type a stencil for such a project if someone would send me a good list of handy SS phrases (along with information on how to type the stencil - my typewriter is an Underwood Standard, but I'm ignorant of what sort of ribbon it uses. (Good idea, Charles - maybe Cesar could help us in this area! -ERC)

**BRUCE D. BENNETT** - 82 Norman Lane - Levittown, New York - 11756  
 WABC was off the air on SM 3/14 before & after 2am w/TT & CC & leaving the air every few minutes. Station underneath WABC was probably KOB, but I couldn't wait around to find out. (My money's on Jamaica -ERC) V/v & QM received from WJIX. John H. Shannon: the station you mentioned recently on 1166k on 2/15 from Hicksville (two miles E of here) was probably pirate WHEB who showed up last year around April w/SIDE & the works. Evidently they are getting bolder and are giving locations. I just got a call from Shel Swartz. I recently received the Russell Antenna Booster and have been testing it out. Its uses are many. When used alone it adds up to 30db gain. It can be used to add antenna and ground terminals to your RX. The unit uses inductive coupling and should be placed near your radio's loop. When the unit was used with the Guardian 5000, the booster increased signals by 50%, according to the Guardian's built-in meter. When used w/ the Realistic TRF signal gain sounds to be about 40%. More info in next report. Where's Dave Goldfarb? 73s. (Maybe he moved to Rosenberg, Texas -ERC)

**WES BOYD** - WJMK - 401 North Blaine Avenue - Youngstown, Ohio - 44505  
 Get your 1500 DX now - KPMC may soon go AN-6 - now on till 4.  
 As to DX: 3/7- WJMK TEST very good here, about 80db over the Wolfman. Also r/c of WJMK-1370 & WPCF-1430. 3/14 was not too bad w/WABC-770 off (How many of the NYC crew missed this, Brian?) (I know of ONE -ERC) It left 8 5-8 signals from RJR Jamaica well o/KOB. They must be AN Sat. & Sun. - much needed here. I noted WCHB-1290 on TT 5:33-5:40-plus, no mention of a r/c so maybe just maintenance. 6:31, KHEC on PSA power (why not use PSP for Pre-Sunrise Power & leave PSA an Public Service Announcement?) (Good - we will do! -ERC) KHEC o/WMP/WMA/WYAE OC. 6:40, WJMK-1430 smashing WHK, then @ 6:45 such needed WHIZ-1240 SM s/on @ solid plus-20 (WHEB s/on @ 7 GHz). I was looking for WPTA-1240 but no luck. 3/15- r/c WHEB-1590 12:30-12:40 unlisted, then listed r/c WKYC-1190 @ 1:30. I noted WHEB off & on, TT etc., most of AM; only KAMA. Too much noise for KYXI. The WJMK TEST very poor here due to WJMK but enough bits & pieces for a report. WJMK-1590 on @ 2:45-3 w/organ mx; no mention of this being a r/c but every month at the same time he's there. Various: WCHB-990 WJMK-1540 WJMK-1380 KPMC-1560 WKYC-1340. v/1- WJMK-1150 WJMK-1150 WJMK-1250 WJMK-980 (for change to Thunder Bay) WJMK-1570 WJMK-1370 & KJMK-780. YAB 4/10-111

**BLAKE LAWRENCE** - Box 803 & Canon City, Colorado - 81212  
 One can certainly tell that Spring is here because of the way DX keep getting worse. My pet peeve, thunderstorm QRM, has returned to my DX. This has been a good season for me, as I have more than doubled my totals since this time last year. As of 4/1/70, I had 300 even. As of 3/25/71, I have 600. Quite an improvement, and the NRC has been one reason for the increase, with its DX THEM, tips, etc. But probably the biggest contributing factor was that the NRC has given me the incentive to DX. Oh well, on to the recent DX. MM 3/15- KHEC-1240 Cal. w/SID @ 5:00pm, QMCD-760 Cuba w/NK, clock ticks, Hello National, & TC every minute, 5:12-5:15 & on, KIRO-710 Wash. lurking behind KHEB w/TT & ID plus TC @ 5:30pm, must have been on non-DA. Not much SSS DX that week but KAPS-860 La. heard @ 5:30. SM 3/21- KOCB-1350 heard w/ID @ 3:30pm. MM 3/22- Was the best MM in a good long time. No static, & DX to the R was outstanding. WAGL-1560 S.C. heard on IRCA TEST @ 4:36 - too bad it didn't get in DX NEWS in time. CJSB-1510 for Que. I heard on FF @ 4:22, WAKY-790 Ky. w/rr & jingles @ 5:05, WJEX-1510 (Mass. 32) poor w/TC, rr @ 5:22pm; this one is one of my best as I think they were low directional at the time. Also, an UNID-1100 w/religion before the WJMK s/on, KPMX? (KHEC -ERC) KJMK-1450 La. & the WHEB-1430 r/c rounded out the MM. On 3/23, KJMK was off for several hours during the evening. KJMK-800 was dominant (of course) but KHEB-800 Utah came in @ 8:23pm & CHAB-800 Sask. was heard @ 10:10 w/rr. KJMK was back after 10pm local time. Finally, on 3/24 I heard everyone's pet CHAB-840 w/SS quality programming @ 8:10pm before KJMK fade-in. I have heard a few r/c's that are on the NRC r/c list but not in the NRC list - the info has been sent to RJE. A verie (pretty shocking considering I rarely report them): WHEB-700 v/g. They held out for me since 11/70! I hate to see DX NEWS go off its weekly publishing sked - sniff, sniff! Ah well, 73s & lotsa good DX luck.

**ALVIN KRAUS** - somewhere in Germany.  
 Well, I decided it is about time I got back to Musing and some DX-ing. I don't know yet how good DX are going to be here in West Berlin, what w/r location & the political scene over here. I will definitely have to watch who I send reports to! I will be using a R-390A w/a longwire, as my loop isn't built yet. I also have an old Lafayette HA-230, which is currently getting a complete rehab and perk up. Well, on to my Musing. It's great to be back in the NRC after a two-year absence. I guess a little re-intro is in order. I have been in Berlin since 1964, & I am presently serving in Uncle Sam's Air Force over here in W. Berlin, just getting back to DXing, after a two-year break. I don't know how much I'll be able to report on loggings, but I hope to provide some info on the Euro-peans for you guys. If anybody needs any help with German IDs (we all should be good for that!) German translations, or info on some of the stations over here, just drop a line or mention it in DX NEWS & I will be glad to see what I can do. Thanks anyway, but one QSR bulletin is enough. DX NEWS is received here about four & one airmail (airmail has address plate). DX NEWS is received here about four days from postmark in Boston - not bad! Any other of you NRCers out there w/an APO NY number? Why not drop a line, maybe we can get together. Well, I guess I should cut this short & let those of you w/some good loggings use some of my space. 73s, good DX & Muse!

**TONY LAMBERTA** - Box 6911 - Portsmouth, Virginia - 23703  
 Hi from Virginia and just a few lines. Pre-selector is almost finished. We put the wooden box together yesterday. It is 7"x13"x7" and will house the 12" ferrite rod antenna. Three RF amplifiers, long-lasting A & B batteries will be inductively coupled to existing ferrite antenna in Hallcrafters WR-3000 transmitter portable via thin coax. The result is a highly sensitive portable DX w/the quality of a communications (tube-type) RX. The increased sensitivity is really great. I sure wish I knew how to build one back in N.Y. as a technician is really great. I sure wish I knew how to give instructions for a two-stage pre-selector. If anyone writes me I'll try to give instructions for a two-stage pre-selector (the three-gang tuning capacitor is not available easily & came through from N.Y.) KFI-640 was like a semi-local the other day @ 6am. KFC's WJMK stations are like locals during the daytime & are not a completely over-water path. The trip to Belle Luten's (Elizabeth City, N.C.) had to be cancelled because of change in plans here. The pre-selector would not help much if you have a good sensitive tube-type set already, containing a tuned RF amplifier.



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

I have not done a great deal of listening since my last report. CX have continued fairly good w/some brief exceptions. DX: WKJH-1580 N.J. @ 6:59am on 2/25 w/cx, ads, ID & into CX @ 7 when WPOD came on and made copy a little difficult. WFLZ-1070 Tenn. @ 6:30pm w/pop rx & ID; this one was covering 1070 like a blanket & I thought for sure we would be in for some very Auralora CX, but TAs appeared later on, including 1533 which doesn't make it here too often, so I wonder what was going on. Other normally strong signals such as WOKY WKJH WKJH etc. were way down in signal strength or totally absent - very strange. 2/26- WREB-990 @ 7:01am w/s/cx; WARR-990 Va. @ 7:02 a/s/on & sweeping WHITE; WKJH-1000 Va. @ 6pm s/off & said affiliated w/WDAK & WAKB. WJHG-1520 S.C. @ 6:12pm w/tail end of s/off, so no tape; WOKY-1540 N.C. @ 6:14pm w/s/off deep down in soup - again no tape; WJHG-1520 Tenn. @ 6:15pm s/off and fair tape. 2/28- WJHG-1150 Pa. @ 5:43pm w/s/off w/mulled WJHG. 3/2- WJHG-1600 N.Va. @ 6:16 w/ID & into CBS NX w/local WJHG completely mullied. 3/4- WARR-1520 N.C. @ 6:15pm s/off, but which city is this located in? 3/8- WREB-1090 N.C. @ 3-3:35am w/TEST for IRCA; very good signal during entire program; WFRK-1530 Cal. @ 3:45-4 w/Bolly again, but I was able to get tape of s/off this time. 3/18- WBAO-1590 Miss. @ 6:38-7pm s/off; this one had a very strong signal, but there was much FM on frequency. 3/20- WFLZ-900 Va. @ 6:30am on log for call change from WDBJ (takes me a while to get around to some of these, doesn't it? I still have to get WABC from WJZ, hi!) 3/22- WOKY-900 Va. @ 6:30pm s/off - WAPC is more usual here; WJHG-730 Tenn. @ 6:45pm s/off & promo for FM. I also had a s/off on this frequency @ 7 which I suspect was WJHG, as they did some promo for FM on 104.3, but not enough to log it. I received a nice v/1 from HCBJ in addition to v/q & literature; WBAO came through w/a v/2 & WREB very promptly w/their v/q. That will do it for this time. I hope everyone has had a most receiving season & let's try to support Musings during the off season. 73.

T. D. BUCKLEY - 2831 Fairhaven Avenue - Apt. 101 - Alexandria, Virginia - 22303  
Greetings from Alexandria! Verics have been flooding my mailbox lately and here are some of them. v/1- CKOC-1150 WJHG-1240 WREB-920 WJHG-1150 & WBAO-920 for their TESTs, WREB-1080 (after three months) KIQV-940 WJHG-1500 WFLZ-870, WJHG-1000 & WBAO-1430-TEST. v/q- WKJH-1070 WJHG-1420 WFLZ-1390 WJHG-1470 WJHG-1260 & CKPC-1380. I've been tied up with school work and didn't have much time for DX. However here's my latest: WREB-920 @ 4:02 w/NX bulletin w/WOKY-920 Milwaukee testing for Fla. 35. WJHG-900 @ 4:10 w/HL, WJHG-1260 Ind. testing w/OC & IDs @ 4:23 & 4:40; WREB-1260 Mass. @ 4:41 w/WBAO & ID & WJHG-1260 N.Y. w/contest announcement @ 4:42, all of above on MM 3/1. MM 3/8- CKPM-1440 Ont. @ 4:17am w/HR & WX, WREB-1090 Mexico w/promo for Frazier-All fight & ID @ 4:45am, WJHG-1260 O. @ 4:50 w/rr & SIDs. MM 3/15- Only catches were WJHG-920 N.Va. or WJHG-1260 O. I've sent then both three reports & not so much as a thank-you-but-your-report-is-incorrect letter. That's it for now & long live WABC, hi.

JOHN H. SHANNON - WPIT - Pittsburgh, Pennsylvania - 15222

I just came off a rather productive DX weekend, quality-wise. Province 39 in the form of HFLS. was logged NH @ 4:30am, thanks to a tip from Joe Frauner relayed via Eric Diricco. I caught WJHG-740 at their s/on & about 20 minutes thereafter through the Cuban, KJMC & an OC from CAL I think. Now for P.E.I.! Also verics in from states #43 & 44. KJMC for 2/8 reception, & WJHG for same. I also logged over the weekend the r/c from WJHG which time I forget now with no log at work. Also HJBJ 3/22 @ 9:57pm, GACK, w/CMQ. Monday, I threw together an FTB pre-amp for my loop antenna, and now have more gain than I know what to do with. It is a simple little thing w/some ideas taken from the GFW FET amp, & some of my own ideas. It is not a balanced amp, but instead uses a single dual gate FET. This FET is capable of high gain without neutralization. The whole thing only uses some dozen parts, all of them very easy to obtain since they are non-critical. While it no doubt does not do the job of the GFW amp, it would make a very nice project for anyone who wants to add a little gain to his loop. Also it should make a very nice portable loop antenna when used in conjunction w/a ferrite loop

a la the SM-1. I am going to do a little more experimenting with it, then I may see if HQ wants to publish a brief description of it. I have only had a chance to try it briefly so far, but during the day it brings up the signals from stations like WSM WJHG WMAQ to very respectable levels, almost to their nighttime levels without the preamp. More after some more experimenting and the first MM test next week. 73.

MARC DELCORREO - 35 Sylvan Drive - Hyannis, Massachusetts - 02601

MM 3/22: CX very active in all directions. Tirana-1214 very clear w/YL in language similar to OS @ 10:45pm Sunday night; Toulouse-944 fair w/FP pop rx 12:39; TIPS-975 good w/lively SS rx & R. Ateneo ID @ 12:42; loud TA is here on 1082 & 1151 but too much domestic slop to pull out any audio; WVA testing AMR w/instrumental rx 12:58; TA-1205 weak w/Bordeaux w/distinctive flute IS 1-102, no doubt Sierra Leone but lost after 1:02 so no log; BRC-1214 clear w/rr after CHRI s/off @ 1:10; BDC-1295 good w/world rx @ 1:12; OS-954 looping 5 1:27, probably Peru - are they usually on this late? Still on @ 3:21. (They're NI-EMC) WJHG-920 fair w/Love Story these 1:39, Cuban almost completely mullied; OS-88 mentioning Peru @ 2 but still no ID- this has become a super non-sense! WJHG-700 w/rr & American DJ @ 2:40, apparently IS, no ID heard until 4 when "This is the Armed Forces Radio & Television Service", then into NX of Vietnam; must be 50w Percy APB, Puerto Rico. UNID Brazilian-900 fair 3:18 w/ran in PP looping way out to SE, must have been s/on; KFI-40 "Sports Capital of Los Angeles" fair w/CMQ mullied 3:41; Jamaica TTs heard on 590 560 580 620 700 720 750 & 770 4:30-4:45, the RR outlets (590 580 720 770) start as early as 4:15. WJHG-1500 TEST LAC -/ classical Cas 4:37; WJHG-920 r/c-IT w/HR @ 4:42; IS-970 very loud 4:48 well w/YWV, consists of nine notes played on xylophone, heard till 4:59 s/on-anthen. Memphis, another IS-970 started @ 4:38, this was a music box IS & sounded familiar, but I couldn't place it. ETC, I noticed you heard the loud one a few weeks back, do you know who it is? (Yep - R. Cristal, HDS with the nine-note IS, & the later one is a Cuban, I am told -BRC) As Ernie mentioned, with WJHG off 920s, this channel has become a real mess of LAs after 4 a.m.

JOHN JOHNSON - 310 Washington Street - Hoboken, New Jersey - 07030

DX in this area in the last week very good. The following are a few more to add to the Old Log. WJHG-1230 Bolton, Ga. WJHG-920 Frederick, Md. WJHG-1500 Winston-Salem, N.C., WJHG-960 Cape Girardeau, Mo., WJHG-900 Calgary, Alta., WJHG-1340, Knoxville, Tenn. All above were received on the old HR-120-X which is still an excellent set for HCB DX. It has stability and very good sensitivity, also good selectivity. Side-by-side test it runs rings around the SX-133 Halliwellers. More later. 73c.

BERNARD DUFFY - 350 Richmond Terrace - Apt. 1-P - Staten Island, New York - 10301

Another nice verification from an LA station arrived - it's a picture postcard that Ernie would appreciate, from YVIX-570, Radio Rumbon, Venezuela, that I reported 11/30 @ Sen. It verified in HL. 3/29, I added WJHG-1300 Harrisonburg, Va. as they ITD and infrequently ITD @ 2:03 & later.

TONY LAGNETTA - Box 6291 - Portsmouth, Virginia - 23703

Greetings again. Just a few lines this time. Most DXing of late has been during daytime hours around noon. It is amazing to find WJHG-1000 readable with semi-local WJHG-1000 mullied. WSJS-600 with WJHG-600 mullied. WJHG-940 strong and WJHG-1010 fair. WJHG-930 came in with WJHG-930 mullied. WJHG-1520 has strong ground wave here. Does anyone DX on low frequencies (200-400k)? CLB-216, Carolina Beach, N.C. puts in a strong ground wave here. Can they be only 1,500w? Where is ZBS around 400k? Best wishes till next week.

REMEMBER WE'RE ON OFF-SEASON SCHEDULE NOW, QSL'S - OUR RULE HAS BEEN AND STILL IS, ONE MUSING PER MEMBER PER ISSUE, AND NO MORE THAN 30 LINES OF DX NEWS PRINT PER MUSING. PLEASE KEEP THIS IN MIND AND TIME YOUR REPORTS SO THEY WILL BE ONE TO AN ISSUE. PLEASE DO NOT INCLUDE NON-BCS DX IN YOUR MUSINGS, AND ALSO, NO VERIC SIGNATURES IN YOUR MUSINGS. PLEASE USE A.M. & P.M., AND NOT THE 24-HOUR CLOCK. AND WHEN WE GO TO D.S.T. SOON, "ROLL WITH THE PUNCH" AND REPORT IN E.D.T. C U N7

34  
 GEORGE B. SHERMAN - 104 Pinewood Circle - Rosemount, Minnesota - 55068

SM 3/7- S/on w/o Canada @ 6 u/WSPD-1370, must be CPLW Que. as I doubt if Nfld. or N.S. IFFG. Can anyone confirm CPLW SM s/on as 6? NRC Log says 8:30. MM 3/8- WKTE-1090 N.C. TEST came in good o/XERB @ 3-3:35 s/off; WSIX-980 Tenn. fair in the mess most of the AM & seems regular now that they're NSP-HI. WFDR-1070 Ga. ET w/WSPD, I forgot what time. WCNW-680 W.Va. s/on good w/250w w/WPTF s/on C 5, but WPTF's #1 was back next MM. 3/12- A great morning for DX, starting w/CHVN-1410 B.C. @ 3:15 w/rr & fair-good signal o/unID QRM & WMIN-1400 slop. KVI-570 Wash. finally showed up after months of trying w/MOR o/u WKBN @ 3:30; CKKT-1110 Alta. w/MOR & much dead air o/WPT C 3:55, thanks to KFAB SP. KFAB must be going directional again like they were before that tornado blew away two of their three towers. SM 3/14- KTRM-990 Tex. weak w/c/w & no QRM @ 6:35am; XEJVP -1560 w/many R. Chamizal IDs @ 7:25am. MM 3/15- WKAG-580 P.R. good w/no QRM @ 2:55 & SID; HJHU-600 finally w/complete ID @ 3, Cuban QRM; KLUC-1140 on TEST w/rr, very good w/no QRM until 3:14 s/off, v/l-CM back already. 3/18- WHOL-930 O. s/on poor w/unID QRM @ 5; KRLA-1110 Cal. a pleasant surprise w/rr & fair signal @ 5:35, KFAB off again; normally NSP; WMNC-570 N.C. @ 5:55 fair w/WKBN. 3/20- XEBG-1550 was good w/QRM from TT/OC & KXEL-1540 @ 4:30; XEBG is AN-5 in SS w/"B-G" IDs. Then WCIW-1550 Ind. decides to surprise me w/s/on @ 5:25 while I was listening to XEBG, fair w/250w & easy as CBE doesn't s/on till 6 on Sat. SM 3/21- WTAW-1150 Tex. decided to ET for me almost the very minute I turned on my RX w/MOR @ 4:05. I had my RX set on 1150 before I went to bed as CKX-pest is off SMS only @ 3. KCMC-740 Tex. fair w/no QRM w/c/w & ID as "KTAL, 98.1" @ 6:40, CBL off till 7 SMS. MM 3/22 was great! KGMS-1380 Cal. w/NX o/KRKO @ 3; KCRL-780 Nev. weak-fair w/NX, WX, & s/off @ 3:55; G&E Islands' VSZ1-must've been the one w/weak carrier on 844k @ 4 for country #27, heard on my A-2515 which is on sale for \$50. WAGL-1560 S.C. TEST excellent w/no QRM @ 4:33. Heard total is now 1,176. I heard 24 states, four provinces, and four countries in about two hours on my Star Roamer, for sale for \$40 postpaid. Good DX & 73.

CARL LABELSTEIN - 1924 South 55 Street - #2 - Omaha, Nebraska - 68106

This is just a short note to tell you I am still around. I really haven't had too much DX time for the last three years. I work for Arthur Anderson & CO., a world-wide firm of CPAs, and am busy season and the DX season coincide. I also got married last September. However, I may be more active at the dials next year. I also may have a good chance of attending one of our firm's senior training schools which is ending as the Convention begins. That way, my transportation will be paid for! Pretty good coincidence that the training school and Convention are both going to be in the same city and same time. Well, nothing else now - see you later. 73s.

HQ -  
 JUST A LITTLE NOTE I THOUGHT YOU MIGHT APPRECIATE. I RECENTLY JOINED ONE OF THE COMPETING DX CLUBS AS A BACK-UP TO THE NRC. WELL, NOW I CAN SAY IT MAKES ME APPRECIATE WHAT A GREAT CLUB WE HAVE. KEEP UP THE GOOD WORK!  
 73s  
 (NAME WITHHELD: HQ...)

- |                 |                     |      |           |                         |
|-----------------|---------------------|------|-----------|-------------------------|
| A - S. Kamp     | G - W. Boyd         | 1390 | W Eq O K  | E. J. Kerwick, CE       |
| B - R. Musco    | H - T. Kerfoot      |      | K G E R   | L. Crumbaugh, CE        |
| C - D. Copeland | I - G. Atkins       | 1400 | W J H O   | K. Rigsby, PD           |
| D - R. Wood     | J - B. Bennett      |      | K X F I V | W. L. Fichett, CE       |
| E - M. Sorensen | K - K. Birylingmier | 1410 | W P q O P | H. V. Smith, CE         |
| F - K. Lyon     | M - E. Jooper       |      | K U L Y   | A. Sarbanc              |
| N - N. Centzer  | O - A. Merriman     | 1420 | W O C     | Tex Smith, CE           |
|                 |                     |      | K T O E   | E. E. McHenry, A to DoE |
| 540             | W D M V             |      | K Q V     | H. Engel, CE            |
| 610             | Kra VmL             |      | W M N C   | J. Hancock, CE          |
| 630             | C K A R             |      | W I R E   | Madelyn Y. Patton, PD   |
|                 | W L A P             |      | W N A V   | G. W. Trout, CE         |
| 650             | KqY AmK             |      | W Q O K   | Mrs. E. Smith, AM       |
| 740             | W Vq C H            |      | W B C M   | T. Huckaby, CE          |
| 830             | K Iq K I            |      | K Pm U R  | R. Hale, CE             |
| 850             | W Kq I X            |      | K Dm O T  | H. Shelton, CE          |
| 860             | K Oq N O            |      | K E W I   | T. T. Tourtilot         |
| 870             | W H C U             |      | W Gm E M  | K. Mitchell, CE         |
| 900             | KrU EmL             |      | W Rn Amb  | J. Martens, CE          |
|                 | W J W L             |      | W J E P   | N. Howard, CE           |
| 910             | K Am D              |      | W M F J   | D. Graff, CE            |
| 920             | W C O W             |      | K E E P   | J. McClure, CE          |
|                 | K Dq H L            |      | K Tm Y M  | W. Ross, M              |
|                 | W P T L             |      | K B R Z   | R. W. Knipp, CE         |
| 940             | K B R E             |      | W AFC O   | J. E. Martin, CE        |
| 970             | K O I H             |      | K Sq O    | J. Vinson, CE           |
|                 | W Aw N V            |      | C Fq R W  | G. Myers, ESu           |
|                 | W Ju R Z            |      | K Rf B C  | W. M. Yougay, CE        |
| 980             | KTF WmB             |      | K TrH S   | H. F. Ridgway, CE       |
| 1170            | W Hf L W            |      | K W I Z   | D. Patterson, CE        |
| 1180            | K Om F I            |      | W X I T   | E. F. Arbuckle, E       |
| 1230            | W ETE X             |      | K Am I R  | R. Terry, PubSerDir     |
|                 | W J B C             |      | WcC FHR   | F. Kalil                |
|                 | W S T R             |      | W R D W   | G. Stearns              |
|                 | K Nq U Z            |      | W DfE N   | W. Berry Jr., Sale M    |
|                 | W C W A             |      | K M P L   | C. McHan, CE            |
|                 | W B L J             |      | W A A O   | E. J. Alexander, CE     |
|                 | W Hq B Y            |      | W Pq T R  | D. Ingram, A, E         |
| 1240            | WTR OmV             |      | K Am S A  | J. J. Cruise, CE        |
|                 | W EmD C             |      | K U A T   | J. M. Clark, CE         |
| 1230            | K O I K             |      | W N T N   | R.G.C.Hendrickson, CE   |
| 1270            | W Iq B R            |      | W T T C   | D. Lefebvre, CE         |
|                 | C Jq C B            |      | W Cfg R   | J. Griffith, A          |
|                 | W C G C             |      | W T R Q   | A. Bowman, GM           |
| 1260            | K Gq I L            |      | W qQfXmR  | C. Scott, CE            |
| 1310            | W Tf L B            |      | W B K C   | W. Neiman, VP, GM       |
| 1320            | C Kq E C            |      | W D X R   | M. DiLillo, CE          |
| 1330            | K LrE S             |      | W F G M   | J. Bartlett, CE         |
|                 | K ChL M             |      | W K U N   | (J. Rejmer, CE          |
| 1340            | K R A M             |      | W K I G   | (L. Souder, GM          |
| 1350            | W Ir O U            |      | W E R A   | D. Morris, GM           |
| 1360            | K I C X             |      | W F R C   | D. Patrick, PD          |
|                 | W Kq A T            |      |           | R. Balfour, CE          |
|                 | K Ag S T            |      |           |                         |
| 1370            | K Xf L F            |      |           |                         |
|                 | K RrE L             |      |           |                         |
| 1380            | W A O K             |      |           |                         |
|                 | K Rq O              |      |           |                         |
|                 | W A M S             |      |           |                         |
|                 | W A W Z             |      |           |                         |

We have more on hand - keep them coming!  
 We thank these folks for the neat way they sent them in & for using the abbreviations  
 Be sure of the spelling of the names, please