

"I would like to compliment you on the magnificent job you guys are doing. The articles are excellent, the Log superb, and the Club is the best!

(Keith Birlingmair)

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WELCOME TO THE NRC!

- *Fred McCormack, P.O. Box 611, Watertown, S.D. 57201
- *Percy Kesteven, 13112 134th St., Edmonton, Alta. (Rejoins)
- *Charles Risinger, Lock Box 357, Blackliek, Pa. 15716
- *John Junker, 1217 Epsworth, Dayton, O. 45410
- *Robert Simpson, 366 Middlegate Dr., Bethel, Pa. 15102
- *Steven d'Adolf, 16 Westgate Dr. Apt. 201. Woburn, Ma. 01891
- *Ken Onyschuk, 1643 Olive Rd., Homewood, Ill. 60430
- *RM3 Paul R. Scottini, NAV FAC Box 71, FPO Seattle, Wash. 98791

Welcome to the NRC, gentlemen, your New Member Kits were mailed about 6 hours ago and should be in your hands by the time you read this... Why not write into Ernie and introduce yourself to the Club in a Musing?

RENEWALS THIS WEEK...

Heinen... Gantzer... Lombard... Wyman...

PRESSTIME FLASH!!!!
 ERNIE COOPER WINS ANARC
 * MERIT AWARD FOR HIS
 * OUTSTANDING WORK!!!

RANDOMNESS

WAGL-1560, Lancaster, S. C., will run a test on March 22nd starting at 04300 EST; WAGL will be running 10 kw nondirectional during this test and should be very widely heard. **Send reports to Harry Helms, 115 Leroy St., Fort Mill, S. C. 29715.** Return postage is mandatory; no tapes, please. (Info from Harry via telephone at press-time)

WINE-940, Brookfield, Ct. is a semilocal for NYC DX'ers but there are many more throughout the country who need them. **They will be testing on March 29th** with a full kilowatt, doing a POP in conjunction with the Test for NRC. This will be aired from 0200-0330 EST and will feature lots of tones plus mx of an up-tempo style. ID's will frequently be given and 940 should be clear pretty much, except for WINZ and KHOS after 0300 when KFRE and CJIB sign off; given favorable cx this one might make it from coast to coast. The address is WINE Radio, Danbury New Milford Rd., Brookfield, Conn. 06804 The phone is AC 203 775 1212 and the CE will be glad to take calls BUT NO COLLECT CALLS PLEASE! (Info from Roger Winsor)

KLUC-1140, Las Vegas test, scheduled for 3/15 will be broadcast 0300-0330 EST instead of the earlier time given in a previous issue of DX NEWS. Send reports to Keith Griffith, 5900 W. Tropicana No. 87, Las Vegas, Nev. 89102 (Info from Fred Tankersley at press time)

KRVN-880, Lincoln, Nebraska has been heard running antenna pattern tests on 3/10 at 0306 and 0415 EST says Bruce Winkelman in a last minute phone tip to Big George at HQ!

About those GREAT CIRCLE MAPS NUMBER 3042 centered on NYC. They can be obtained now at the Hammond Map Shop, 1 E. 43rd Street, NYC. The U.S. Department of Commerce, U.S. Coast and Geodetic Survey, has moved and no longer sells these maps. Of their listed agents only Hammond stocks the map; price is still 40¢.

Attention NEW ENGLAND MEMBERS - if you are attempting to do direction finding with your loop and are unable to locate a polar azimuthal map based on Boston, don't be too surprised - there aren't any commercially available. I've got one centered on 19 Irma Avenue, however, that was specially made for me and which should be adequate for DF purposes from most locations this side of the midpoint between here and NYC. Please contact me at HQ if you would like a copy of this Boston (almost) centered polar azimuthal equidistant projection map - GPN. (NYC MAP INFO FROM MIKE BREGER)

THANKS & CREDITS & KUDOS!!!

To Mark Katz, George Kelley, Ruth Nelson, Chuck and Jackie Rossier, Stan Morss, Ray and Margaret Moore for helping out in recent Publication sessions; Michele Mercer and Jackie Rossier for helping us with copy typing, and Phil Sullivan for helping with sundry HQ chores this week. Without the volunteer efforts of these and other NRC workers every week there would be no DX NEWS!

*GPN & BGK & PLS

"WHY THEY LOST AN ENTIRE EMPIRE" DEPARTMENT!

(London, November 6th) Announcers at the BBC radio station in Leeds have been ordered to wear evening dress when they read the news. The BBC made it clear, however, that the order applies only to the Leeds station. But earlier when it was thought that the order applied to all BBC news station readers, announcers were planning a revolt and threatening to go speechless. The BBC rules have been made because executives feel news readers carry more authority if they are wearing the right clothes - even if they cannot be seen. "Their speech is better and the tone more authoritative if the readers are wearing the sort of clothing one would expect of men relating the national and local news," a BBC official said. The manager of the Leeds station, Mr. R. Beatty, said: "An announcer is influenced by his dress. If he wears a sweater, his reading may be sloppy. We thought about insisting that early morning news readers wear evening dress but we decided it was unfair on someone getting up at 5:30 AM". (Reuters, via GPN) (Please note at WHOT and WMIX... BPC)



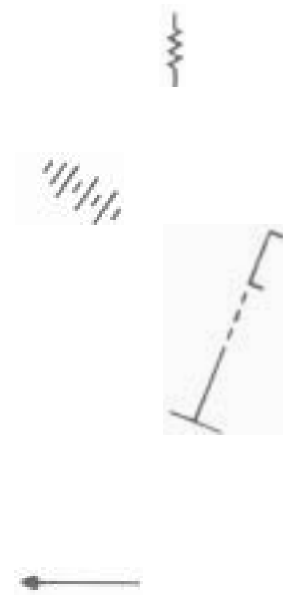
This Is To Confirm
Your Reception On

January 22, 1971

of
KFI RADIO 640
Los Angeles, California

Power: 50 Kilowatts
640 Kilocycles
Transmitter: La Mirada
California
Antenna: 750 Feet
KFI Radio operates
24 hours daily
Non-Directional
Since 1922

73's
Bernard Koval
Chief Engineer



From Eric DiRiccio,
Pittsburgh, Pa.

		Kc/s	Watts	A.M., E.S.T.	Info:		
Mon. March 22	W M V O	1300	Mount Vernon, Ohio	500	2:00 - 3:00	N R C	
Mon. March 29	W I S E	1310	Asheville, North Car.	5,000	2:00 - 2:30	NNRC	
	29	W I N E	940	Brookfield, Conn.	1,000	2:00 - 3:30	N R C
	29	W B N C	1050	Conway, New Hampshire	1,000	2:15 - 3:00	N R C
	29	K R E L	1370	Corona, California	500	3:01 - 6:00	IRCA
Tue. April 6	K S F A	860	Macogdoches, Texas	1,000	6:30 - 6:45	r/c-AWO	
Mon. April 26	W G B G	1400	Greensboro, North Car.	250	2:00 -	NNRC	
Wed. April 28	W C O X	1540	Camden, Arkansas	1,000	1:01 - 4:00	NRC/IRCA	

W M V O was listed incorrectly a while back as Feb. 22 - it should have been Mar. 22! But we read about it in IRCA's DX Monitor, and it's too late for DX NEWS. Reports were to go to George Donahue, C.E., WMVO, Mount Vernon, C. 43050 - arranged by Dave Schmidt.

W I S E will join the many Carolina stations to DX for the NNRC. Reports go to Mr. N. Eric Jorgenson, Vice President, WISE, 2 South Lexington, Asheville, N. C. - 28801.

W I N E will be a Proof of Performance, and they'll use both periods of upbeat music, and cycle tones, and plenty of IDs. Send reports to Mr. Jerry Yacuzzi, Chief Engineer, WINE Radio - Box 1335 - Danbury, Conn. 06810 - don't write to Brookfield! This was info from NRC's Roger Winsor, but we found the info in IRCA's DX Monitor.

W B N C will be testing, with band music and tones, and perhaps some Morse Code and singing IDs. Until lately WBN has been silent on Monday mornings - but they have been asked to stand by for at least the first 15 minutes of WBN's test time, as WKBW did recently for WKVI-1520. WBN is located in a large country house in suburban Conway, in the beautiful New Hampshire ski country. They're very anxious for DX reports, which should be sent to Mr. Lawrence H. Sherman, WBNC, East Main Street, Conway, N.H. 03818.

K R E L will be on with a second three-hour DX-Test, with rock-n-roll music and many IDs. Reports go to Mr. James R. Miller, Chief Engineer, KREL, Box 100, Corona, Cal. 91720.

CONGRATULATIONS

To NRC'er Steven Kennedy and his brand new wife, who were married on Feb. 28th! Our very, very best wishes to them hap. !

HEARD SINCE LAST ISSUE

740 W M B G Ex-WBCI
1360 W C H Q ----, Puerto Rico 1600 W P D C Ex-WEZN

BILL COLEMAN (Raleigh, N.C. 27609) asks: Since the F.C.C. is authorizing power levels from 3 to 50 watts PSA, who couldn't they permit somebody to go on w/a low power XR and operate fulltime in U.S.? Anybody care to comment?

PAUL KILROY - 2100 Brooks Drive - Suitland, Maryland - 20028

Very little in the way of DX since January. Nice v/1 from WEEB-TEST. 1/4- W DEN-1500 Ga. had ET @ 4:30am using c/w. KFAB in well u/WBT @ 4:45am probably using full power during blizzard. 2/2- CSB4-1594 in well @ 1:55am. 3/1- WEZE-1260 Mass. in briefly w/telephone number @ 12:45am. WNC0-1260 Tenn. on for XR adjustment @ 12:46am. The last two are new here. Judging from the favorable reports in DX NEWS on the Space Magnet, I think I will order one soon. Anything would be better than the homebrew loop and short "long wire" I'm using now. In the way, anyone needing a schematic for the Collins 51J4 RX, please write. I have one of the few schematics available.

MUSINGS



Ernest R. Cooper
436 East 21st Brooklyn, N.Y. 11226

DMN MYERS - 5315 Homeland Drive - Toledo, Ohio - 43611

How 'bout that? A real live Musing from Dzn Myers! Not an awful lot of DX in the past couple of weeks, but more this month than any in the past six. Some of the goodies include: DX TESTS from WSAR-1480 WJDM-1530 WSTP-1490 WDEL-1150. 2/8- 5:57pm, WTHI-1480; 6:16 WCHS-580; 6:20 WJMS-590 & 6:47pm, WDIA. Also 2/15 r/c from KWLA-1530 on a little late (?) @ 1:55am. 2/26, WKOG-1560 Gordon, Ga. finally caught on f/c. Tonight, 3/1, there was a strong TT on 1580 @ 8:30pm! Anybody know who? No IDs. It was going right o/CBJ. The Boston P.O. must feel to be something else. Would you believe that I got the 2/27 bulletin before the 2/20? (Me too -ERC) First Class! BPC: I think you're wasting your time printing FIRST CLASS on the bulletins; no one at the P.O. reads it, hi! Well, I must inform you of the get-together we're going to have in Toledo. This is not, by the way, intended to compete with Jerry Starr's YADland gettogether. It's for those who are a little bit farther away from Youngstown than Toledo, or can't make the weekend Jerry's is. It'll be 3/19-20-21 here at my house. It will start whenever someone arrives Friday night, and will end early Sunday afternoon. Bring your own bedding, and be prepared to sleep on the floor (if you sleep at all). You can, of course, go to a motel, but they cost money (hi). Also, bring logs, veries, pictures, QMs, SCs, bumper stickers, radios, loops, etc. Tours of any or all of the following may be arranged: WITO WCWA WSPD WMHE (FM) & WERC (U. of Toledo). Be sure to write to me as soon as possible if you're interested. That should do it from here. I will try to Muse more often (that's what they all say, hi). 73s & Peace. (Sorry this arrived one day too late for the last issue, so the invite is undoubtedly too late -ERC)

DAVE WHARMOUGH - 284 Main Street West - Hamilton 13, Ontario

A few new loggings so far this year: 1/23- WMNC-1430 TEST L&C. 2/1- WOBW-1530 ET/TT L&C 12:40-12:45. I tried for WHIP-1350 but no go thanks to semi-local pest WSIR. 2/6- I forgot about WEKC-1560 TEST & fell asleep minutes before WGRY-1590 r/c. This falling asleep is becoming a regular occurrence. 2/8- No sign of WAJR-1440; just CKPM. 2/15- Great MM w/three new ones. WORV-1580 r/c w/organ mx. WJDM-1530 & WSTP-1490 Specials. 2/17- Some SSS DX brought two newbies, WSMI 111. & WBTC 0. both 1540. 2/18- r/c WMMT-1520 heard u/WKBW. 2/22- KIL0-1440 L&C and surprise, WKBW off for 15 minutes enabling WKVI Knox, Ind. to make it 4-4:15. WIAK heard w/Hi briefly but too much WIRE to get a log. 2/24- SSS good again. WEAW-1330 heard u/WRIE/WHOT/WTRX @ 5:55. WOI-640 briefly @ 6:30 - first time heard in ten years. Veries: v/1- WWNC WGRB WRBC WOBW WMMT WMFJ WORV. v/q- WYDE KIAK. v/f- WTLB WPLO. v/r- KWEL WYLO WIXE. CM collectors, please write - I've received QMs from 77 stations during the past week so I have lots to trade. The Youngstown get-together in April sounds good, & I expect I will be heading down if all goes well. 73s.

RONALD J. MUSCO - 16 Chestnut Drive - Windsor, Conn ecticut - 06095

Not too much to report this time. TESTS from WTLB-1310 WINR-688 & WILM-1450 not heard here. Did anybody else in New England hear these three? thought WILM was non-directional. Recent DX: 2/6- WSYB/CKLC-1380 doing battle 8:45-9:45pm, not enough for a report to either. WSYB is Vermont #5 heard. 2/15- Three newbies on 1530: KWLA on r/c 1:47-2:01am, poor at S-3 w/some static, tentative KFBK @ 2:01 heard saying 11pm NX, and finally WJDM @ S-5 w/three announcements at 2:03, 2:12, & s/off @ 2:14. 2/22- I heard two different stations testing on 1380. I thought I heard WAMS Wilmington mentioned. I stuck with it, 2:40 to 3, when WAMS call was heard again. Tentative sent & v/1 back saying 'was they. Portion of test was woman giving different frequencies followed by that pitch, i.e. 100 tone - 80 tone - 75 tone, etc. Short cuts heard also 'More music'. F/c list shows their normal check is 4:30-4:45. Only other verie, v/1 from KWLA. 73.

THERE'LL BE ANOTHER ISSUE NEXT WEEK; THEN WILL COME A ONE-WEEK EASTER BREAK. WHY NOT CELEBRATE EASTER IN YOUNGSTOWN, OHIO, THIS YEAR, AT THE BIG GET-TOGETHER?

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 WAYNE HEINEN - 126 Linwood Avenue - Orchard Park, New York - 14127
 Hi all, from the Land of Blah & Yech. I take N.Y. Road Test 3/5 with about 10' of snow & drifting. Here's hoping. For those who find my name somewhat unfamiliar I'll let everyone know who I am. I'm a semi-inactive suburban military slightly spaced overly stoned DXer. I'm 21 & a member of Uncle Sam's U.S.C.G. & am an electronics Tech. 3rd xt present. I'm entering my seventh year of DXing (sixth w/NRC), w/the following totals: 516/432, countries 18/16, states 47/46. I've been quite inactive since 2/69 due to time spent with Dear Uncle. DX of late has been slow (lack of time). Back on MM 2/15, I DXed an R-649/U, the C.G.'s standard common RX. It's great on the marine band (that's original C.G. purpose), but rotten on MW. Only catch of note was previously unreported KXEL-1540 logged w/AN c/w around 1:30am. v/g back in two weeks. During day of 2/14 I took log. on CHIN-1540, no answer yet. DX at home was SM 2/21 when I spent a whole AM w/nothing new but CKCH-970 o/u WWSW w/FF & EE rr, IDs in FF were very clear despite my lack of FF knowledge. If you can dig this when I was in Alaska from 5/69 to 3/70 I got five veries for NO DX in - get this - seven months. No f/ups or anything. Delinquents who got in were WNAV-1430 R. Belize WNEB-1230 WRYT-950-TEST (Hi Geoff) & HJAC-1135. To Boston Guys, anyone who sees Howard Lapidus tell him hi, & if he gets back to Buffalo to let me know. All DXers within about 200 miles take note - if I show up on your doorstep with my '64 Chevy, dont kick me out, please? I hope to make Youngstown and will take riders or accept rides. Only trouble is getting all that time off! U.S. doesn't do that for sail or boys! Any NRCer on FRS? Give me a call at 716-842-3148 Mon-Fri at ERS, Buffalo, or if ~~any~~ locals want to get in tou h, number at home is 662-3347 or work, 842-3148 or 2191 - no collect calls. I really hope to get back into fairly regular DXing. That's it from this end. 73s & best DX to all. See ya later.

SGT. DOUG LAMERSON - 460 AMS - PSC 1 - Box 5359 - APO San Francisco, Cal. 96201
 Just a few lines to let anyone who's interested know that I'm still alive over here. I'm presently stationed at Tan Son Nhut Air Base, just outside Saigon. It's not as good as Vung Tau but it sure beats Cam Ranh Bay. I will be leaving here on 6/30 for re-assignment to Beale AFB, Cal. for six months & then discharge - at last. I hope to be able to make the Convention in S.F. While I've been over here my folks moved from Richmond Hill to Kendall Park, N.J., about half way between New Brunswick and Princeton and I had a chance to sample DX there whilehome on leave last October. It seemed to be considerably better than it ever was on the Hill, w/KRKO & KGMS appearing one MM & KNBR KFRE & KRDB regularly, SOMETHING THAT NEVER HAPPENED IN N.Y. There was more, as I started my loggings anew, but that's all I can remember right now. Well, I guess that's about it. I hope to DX regularly again when I return to the States. Welcome back, Artie Krass, and 100 plaster (mot tram dong) to the first person to coax a Muse out of John "Night Train" Javetski. 73 & a Peace wish from Vietnam.

TIM KERFOOT - 34 Cross Street - Weston, Ontario
 CX have been good recently, although I have not been listening too actively. New DX logged: 2/22- WTID-1270, test w/c/w @ 12:57am; came to an abrupt end @ 1:06; WSAR-1480 NRC TEST logged 2:05-2:31; tremendous w/almost local quality reception except for occasional deep fading. Only interference was WQHO-1470 splattering a little. 3/1- WBLJp1230 NRC DX monitored 1:05-1:40am & bits later; surprisingly strong signal, though w/a lot of interference, especially from a tester 1:05-1:15 w/a strong TT. YVOZ-1200 1:00 well o/WOAI but I did not take log. 3/2- WJMA-1340 fair on r/c 12:30-12:45am. One mystery on MM 3/1: Just after I tuned away from the WBLJ TEST, I landed on 930 & heard TC given in MST @ 1:50 (11:50 MST), the temperature was 34° & a short NASA feature, followed by instrumental mx @ 1:54. Anybody know what it would be? (CJCA? -ERC) Or what it would not be? It was definitely 930. 73.

WE'LL PUBLISH BASEBALL NETWORKS IF YOU'LL SEND 'EM IN! THE "SPORTING NEWS" MAY LIST THE ENTIRE NETWORKS FOR EACH OF THE 24 MAJOR LEAGUE TEAMS - IF THEY DO, WE'LL BRING THEM TO YOU, AS THEY ARE FINE DX TIPS! ANY YOU MIGHT HAVE, PLEASE SEND THEM IN TO 438, AND WE WILL PUT THEM IN.

WES BOYD - WHOT - 401 North Blaine Avenue - Youngstown, Ohio - 44505
 Only one verie back in ten days; KDKA-1020. I wrote to find out about the antenna system about three months ago & got a verie. I thought I was gonna have trouble last week (MM 2/22) as w/WTCL-1570 testing (Yes, they are on, or should be when this gets printed). I noted a weak OC in WTCL null. I thought it was re-radiation but @ 4:24pm ID of WTOV testing per authority of FCC - watch for this one, he's back. As to DX: These on 1570 (get them while ya can!) WPGM WYTI WNCA in quite well last week at both SRS & SSS. I noted WYTI on PSA power - ditto WFUR. 2/23 gave me unnn WNCT-1070 while looking for WTSO. Same morn, WKPA-1150 o/WCUE, & WAHT-1510 on SFS. 1520 weird on 2/23 w/WENO on PSA power o/WKBW till 7am, then lost to s/on of WCHE/WVOB. 2/25- WMYR/WKBY-1080 killing WTIC @ s/on, and battle of WKWY/WACB-1380 on PSAs. Then WRIC-540 o/CBEF/WARO. My best catches this week (not counting WKPA-1150) had to be WPME-1540 w/local WNIO on three minutes late on 2/26. Same morn also gave me best catch in quite a while w/unlisted f/c of WMYR-1260 TT 6:45-7am (fourth Friday). I'm surprised nobody noticed this before. But it was 1/WIXY/WPHB/WFBM/WNDR etc. I spent TWO hours filtering the tape before I noticed what it was. I'm not used to hearing S.D. on such a messed up channel at such a weird hour. F/cs of WANV-970 & WTAX-1240 heard as per list. (Don't forget YAD-1971 4/10-11 at Starr's place). MM 3/1- WGHN-1370 f/c & WFEA-1370 s/off @ 12:50 smashing WSPD. 12:50am, WEVA-860 TT and c/w for r/c, still on @ 1:02. WBLJ-1230 super signal on TEST/ 2:55-3:05, KCRL through WABC splash & (I think) YVCD's OC. WOAI-1200 off @ 3:15am. YSS-655 on 3:55am. What is s/on time? (Sure that wasn't Carrousel, Ecuador AN? -ERC) 4:25-4:32 WABY-1400 alone, on MMs. Ditto WGOV-1150. PJA6-925 s/on 5am, SS, only plus-20 w/no in ference. Two UNID SSSers - 730k @ 5:15am, Trinidad? Very poor copy here. (Trinidad is ALL EE -ERC) Other I believe is Colombia-960, 5:18 to 5:22am killng CHNS/CKWS/CFAC, etc. Expected air date for WTCL-1570 is about 3/7, or so CN & NXD tell me. TEST coming soon! I noted KXEL-1540 still on 4:30 SM.

RONALD F. SCHATZ - 510 N.E. 158 Street - North Miami Beach, Florida - 33162
 Greetings! Word is getting out about my unidirectional, cardioid loop. Once perfected this may turn out to be one of the greatest technological innovations in DX history, but note that it is still to be perfected. So far I've been able to tune a solid cardioid pattern for most frequencies, thus tell the exact location of a station & distinguish between colinear stations. However, the cardioid pattern tends to degenerate into a "schmoo-shaped" pattern with changes in signal strength & the loop itself is difficult to balance. I hope to work these variables out by adding preamplification to the sensor & shielding all leads. Because I lack time all inquiries re the cardioid loop must be phoned to me at AC305-945-4915 5-11pm EST. Then I will give you theory & construction details. My present UCL is make-shift only, barring further research & a chance to buy parts, like a tiny battery-powered preamp. I DXed some w/the UCL last MM, but got nothing new. The station opposite CKAC-730 was too weak for much audio, though I suspect CX10 "Radio Ariel". C yes: Anyone else cling research on a UCL is urged to exchange ideas with me, this either by post or phone. Note that I'm up all MMs, now that I do the "AM Show" five days a week, except MM & UM. Well, barring my sudden debts, I'll be attending the S.F. Convention this Labor Day weekend, there to bid for the Convention in '72. Members attending the '71 Convention should start thinkinh of Florida as a definite site for next year's festival. Mmm, I just noticed on the globe that if GPN attends he'll have me beat for the RBE award by 100 miles - rats! I lost by a technicality in Eugene '67. David Frackelton Gleason! I wouldn't think of interfering nor accepting your moral responsibility to the DX community of providing it with an accurate Ecuadorian station list. That would be like my asking you for a "DRG Cuban list" hi. I hope to have more DX next week. Until then, 73 & Florida & U in '72!

DAVID GLEASON - Radio Uno - WUNO - Box Q - Hato Rey, Puerto Rico - 00919
 Greetings! ERC: If I send this Musing triple-spaced, does it make up for the single-spaced one a few weeks back? (You bet- hi -ERC) DX has been mostly on the LA side, except for a few disturbing TAs here & there. But that is in its appropriate section. I have as yet to note an opening to the U.S. since starting to DX on the R-390. I had noted several w/the NC-183, but I had

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not pursued anything in particular. WCHQ-1360 is now on, WCID & WEGA are not. Towers have not been seen for either of them. I am planning to start construction of a loop soon, but I anticipate considerable delay due to availability of parts. Jerry Conrad, how about exchanging impressions on the 390? I understand Ed Krejny is recovering from a bite produced by his angry postman. That's what you get for not using your XIP code. 73.

LARRY E. BLACK - 4917 Malibu - Bloomfield Hills, Michigan - 48013

For those who wonder, WCAU verified my report, so just keep waiting, it'll come. Do WCAR, WCHB, WHLO & WMMN verie? Going back awhile, 1/11- WGAN-560 Me. in poorly for state #38. This is probably the best bet for Maine. 1/16- WAVA Va. u/WBEM w/s/off, & WNYC N.Y. u/WCCO. 1/19- WHCU NY. o/a WWL, do they verie? 1/18- WETT-1590 Md. in well o/WAKR. WBTS-1489 Ala. f/c strong with some QRMary. WAWA-1590 Wis. OC & "WAWA West Allis" @ 2:22, WBIR-1240 Tenn. f/c @ 3:30. WBAA-920 Ind. DX in very well but unnn. KTOE-1420 Minn. o/WHK. 1/21- WMMN -860 Kan. @ SSS u/CJBC. 1/23- WMNC-1430-TEST N.C. fair w/WIRE. 1/28- KCTA Tex. o/WEZ w/religious on SSS. Verie was a business card w/"Report Correct" scribbled on the back. WHIP-1350 N.C. TEST bad but readable u/MSLR. WTXI-690 La. o/WVOK also on SSS. 2/2 - I received the SM-1. WDSM Wis. w/WOR looped, WMGS-730 O. w/WVIC looped, WKYX Ky. o/WKBN, KRMG Okla. o/CBL, WTOP D.C. o/local WDEE. Speaking of WTOP, their verie only took one year, one month - they get no records for speed today, but at least it came which is more than I can say for some stations. 2/5- WESC-660 SRS w/no QRM. 2/6- WENO-1430 Tenn. o/WIRE. Tentative report sent & a quick verie was received. 1/9- WKAC-1080 Ala. w/WTIC looped. Much-wanted KS00-1140 S.D. w/WRVA off. WYNN-1470 Man. fair. Much-wanted CBU-690 S.C. o/ WERA for province #7. As they say in Somerset, Ky., WSFC - San Francisco, California? Support Toledo. 73.

STEVE KENNEDY - WCOX - Box 42 - Camden, Alabama - 35726

As I am writing this Muse it's the eve of my wdding. Tomorrow's 2/28 - yup, I'm giving up bachelorhood for the Sweet Bliss of Matrimony - no more SMs & MMs (anyway, I'm in bed at that hour - I have to work). DX has been spotty here. On 1/30, WDAK-540 @ 3:30pm, WCOF-560 @ 3:40, WVMI-570 @ 4:25. On 1/31, WCBI-550 @ 2:20pm, WYDE-850 @ 3pm. QSLs: WDAK WVMI WABT WCBI WSM WSB WLS. Totals: 215/45/10/8. I wonder if I could or should use and include totals from DX heard in Florida? Or, start over? Or is it a matter of personal preference? Hey, gang, listen. I'm going to have a DX TEST planned for 4/28 1-4am EST at WCOX, so mark your calendar cuz it's gonna be a whiz-bang for IRCA/NRC. The entire three hours of good c/w mx, my sick jokes, and Nadine (my new wife). WX has been pretty wet and windy, thunderin' and lightnin' (Hay Hoss, dig out the White Lightnin', cuz I'm gonna need it fer next summer, to help my nerves. If that stuff from the Wild Blue Yonder hits my tower again, I almost had a heart at-tack!) Have you ever seen it when lightnin' hits the tower? I'll guarantee it shakes up the guy on the board, cuz the tower's in the front yard! And just watch that spark gap arc! (I wish I had that much megawatts for a signal - you'd hear us up in YAD-land, Yankee Land, most everywhere, in the daytime). 73 & lots of DX. (Hey Steve, couldn't you make that DX-TEST date for MONDAY, 4/26 instead? WPTR's off then & it'd help us Yankees (Mets?) hear WCOX! -ERC)

MAX BRIGGS - 4138 Kirk Road - Youngstown, Ohio

Fear not: I live and will see y'all at Dr. Jerry's PAD on the specified date. DX is rather poor so it will not be discussed in this Muse. YAD will lose its first DXer in August when I head to college in N.C. (Swananda, to be exact). Any DXers down near Asheville? Don't worry - Boston - my 30¢ will arrive w/my address change when I figure out what it will be. Enough of this trash - see ya in April or sooner if yer unlucky. Peace from the Capital & 73s.

JOHN W. BASEHORE - 603 Shepherdstown Road - Mechanicsburg, Pennsylvania - 17055

Just a short note at this time to report that several CPs in this area are now on the air w/RS for those interested in catching them. WPDC-1600 is now on RS. This is ex-WEPN which had been off the air for about a year & is now under new management & call letters. They have quite a powerful signal in

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this area, although only a 500w daytimer.. Location is Elizabethtown, Pa. New CP WBE0-1130 in Waynesboro, Va. is also now on w/a tight pattern away from N.Y.C. to protect WNEW. They are barely audible here u/WNEW. Despite reports, it appears WLIF, the ex-WTOW in Baltimore has not yet hit the air although FM affiliate has been on for some time. I observed a carrier on their 1570 frequency on 3/3, but no ID. Is it WLIF? (Could have been WTCL -ERC) Only other report is WTMA-1250, Charleston, S.C. @ 5:50pm on 2/27 w/mx & ID. WDKD-1310, Kingstree, S.C. on s/off 3/1 @ 6:30pm. Finally, WBLT-1350, Bedford, Va. on 3/2 w/ID & mx o/semi-local WORK.

TONY LAGATTUTA - Box 6291 - Portsmouth, Virginia - 23703

Greetings again from Virginia. Well, each issue of DX NEWS which comes reminds me a report is due & I've not sent one in three months. The time I would have spent DXing I've used to experiment with pre-selectors for my WR-3000 (Hallcrafters) transistor portable. This is a wonderful little RX, but those RXes of 15 years ago with tubes (including tuned R.F. amplifier in front end) were so much more sensitive than transistor RXes. However, this problem was solved by using two tubes (type 10A - easily available), in a simple two-stage tuned R.F. amplifier. It is simply fantastic how it improves the sensitivity of a transistor set (of fairly good quality to start with) and makes it like a communications RX with all tubes. I'm now working on one with three stages (all 10A type) and then some real DXing, hi! WHLW-1170 here in daytime weak but fairly readable, new one in Lakewood, N.J. I enjoyed fine visit to WMBG-740 in Williamsburg, Va. (WBCI is now their FM call). A letter from the Editor (I think) of Popular Electronics about where to buy certain tubes was much appreciated. Many thanks to Ernie Cooper and the other gentlemen who give so much time in this great radio club. DX NEWS carried mention of the new one million watt Costa Rica station on 625k. This may help - it is owned by Christian Broadcasting Company, Box 111, Portsmouth, Va. They own a local FM & TV station. It seems they mentioned that most of their signal on 625 is beamed to SA. Are there rumors a CP for a 50kw daytimer in Smithfield Va. on 940k? A family I know in Portsmouth has six children. The two oldest are boys, Paul 12, and Glen, 11. They show an interest in DXing & Glen mentioned he would join the NRC if I'd get him a radio. We're working on a small four tube set we picked up in Suffolk for \$20. Paul and Glen would be our youngest members from Va. Local WPMH-1010 is still under construction. Well, best wishes till next week. I do feel guilty about not reporting in three months - but I hope to "go to it" when new pre-selector is built. I will report much on its performance. 73s & good DX to all. (No need to feel guilty, Tony - we have many who've been NRCers for years & years who don't find it necessary to report in! -ERC)

ANDY KERR - Box 322 - Creswell, Oregon - 97426

Howdy all. I got the new RX built & it is now in the process of being aligned. Next project will be, if I can balk the parents into it, will be an extra antenna. Recent veries: WEZ KDKA. Does anybody know whether WJOC-1220 verifies? I've tried several times without success. I just got my order of NRC Report Forms & they are mighty fine. I am being punished by the P.O. again. I got issues 2/20 & 2/27 on 2/27. 2/27 was postmarked 2/19 & 2/20 was postmarked 2/21. I wish HQ would go back to the old method of dating issues. (Me too -ERC) Can anybody help me in some tube substitution? What can I sub for tubes 1A7, 1H5, 1A5, 1N5. The "ones" in those could be I's. They go in an old Philco. Eric Di-Ricco: KOFT-1180 s/off is @ 2 EST. DX of 3/6, not much. WCBS @ 2:30 w/HX. A clear ID for KORL-650 @ 3:15, but not enough for a report. A so on 650, unID CW. What are the formats of KYAK & WSM? (c/w -ERC) Well, that's it - 73s.

JOHN OLDFIELD - 11623 84th Street - Edmonton 20, Alberta

A fine article, Page Taylor. I think many DXers pass by Canada's LPRTs crying "impossible". Not mentioned was CBXQ-540 which only gets out a mere 1,000 miles or so to California. A very poor signal taped for Yukon #2 @ 900 miles, "Klondike Radio" CKRW-610 is very directional nights. I heard c/w 6/0 CKL CHNL CJAT KQJM KFRC. After months of ear-splitting all those regulars, I deserve

to hear CK-Radio Whitehorse, hi. I also got my best ever tape of CFYK-1340 Yellowknife, NWT @ 600 miles w/the "CBC MacKenzie Network" WX. That's a million square miles of WX, hi. Hsweid or Tonga ar much easier from here. I guess my tape will tell you that. Many of the people and many CBC residents of Canada's NWT have requested that the CBC's Northern Service on SW be scrapped in favor of a new CBC "Radio North" service, w/new HQ in Yellowknife, the new Capital of the NWT. All "R. North" programs would be localized to retain a Canadian North flavor, customs, character, and the various languages of the NWT. The proposal also included what I had heard as a rumor - four powerful BCB stations @ Inuvik, Frobisher Bay, Yellowknife, and Churchill Man. of all places. A spokesman at CPFB noted "our station has about as much power as my one-slice toaster". Complaints that R. Moscow is heard better than the CBC were also noted. Please remember that this is only a proposal, but it just may happen. Can you imagine CPFB w/30 kw? They cover 90% of Baffin Island & the northern tip of Quebec w/CFOW today. If anyone else would like to trade a CD Cassette just send your locals, and I'll send the Albertans along w/my famous impression of a Canadian beaver drinking Dr. Pepper. (We had a fine telephone chat with John last December! -ERC)

GEORGE B. SHERMAN - 104 Pinewood Circle - Rosemount, Minnesota - 55068
 Greetings from the Mid-East! Please note that Minnesota is 1,000 miles from BC & 1,500 from WC. My Star Roamer is still for sale @ \$40.00. More details in 1/30 Mising. DX on MM 1/18 got me s/on of WFMW-730 Ky. @ 7am w/ good signal of night QRM until seconds later when KWOA pest s/on, strong on groundwave 2/12/80 USA @ 145 miles! At least I think it's groundwave because the signal faded the same every morning. 1/22- WSHO-800 La. o/XELC w/c/w & s/off @ 6:15. WFAA-1250 Tex. good @ 6:44 ID, changed power/pattern & disappeared, so they evidently don't hear N, hi. SM 1/24- Most-wanted KKKK-790 Kans. w/Kans. & Colo. WX & fair signal w/QRM @ 7:05am. MM 1/25- HJHN-960 W. "Stuatenza" ID @ 5:30am fair w/ no QRM. 1/30- WHEX-1100 Col. fair w/Col. NX u/WKMG @ 12:10am - now for ZDK, hi. MM 2/1- KKKK-790 Ind. @ 3:48am w/ID "This is Kay Wow" fair w/unID QRM; pest KLAJ preceded by BS of WJTB-1400 Fla. fair on DX w/unID QRM @ 4:30, many IDs taped. My favorite WJTB agency is now clear channel 1400, hi. MM 2/15- I should demand a refund on my alarm clock, guess what happened? I wanted WDEL badly as it would've been a new state & they made it to Ill. at least. Must've been a great MM reading by reports in bulletins. MM 2/22- I gave my alarm clock another chance & it was more cooperative. WBAR-1490 DX @ 3:32 ID for my first Mass. regional; WKVI-1900 Ind. 2/24/fair on EST w/much WKEM @ 4:05, also unID TH, or was it the Coloradoan net? Probably, but WKEM was off till 4:16 too -ERC) WJUM-1400 Mich. s/on good w/WKMG & others @ 2am, score lost to WKPE; KSTL-690 Mo. @ 8:02am. 2/26- WENL-1370 Ind. 2/8 s/on w/XERP/1-11-80 heard. Good DX.

GEORGE KELLEY - 118 White Street - Watertown, Mass. - 02179
 I'll bet that some of you know that Stan Morse owns the controlling interest in Dr. Pepper! Stan is seriously considering selling out in favor of picking up some Ski-Doo stock. DX: 3/1- WIRE-1430 Ind. notes for first time @ 3:25am w/CA, good signal. WJNY-1090 Elizaveta w/good signal u/unID IC and occasional TT @ 3:45am w/Wolfman Jack and rr. 3/8- WKRE-1090 N.C. w/good signal & ID @ 3:02am, then into @ 3:03, then rr @ 3:04. WFDR-1370 Ga. TEST ID heard @ 3:00 good signal u/inspido Ohio station. WJAI-1320 San Juan w/great signal @ 4:45am w/NX & plentiful IDs. WVOJ-1320 Fla. good @ 4:55 w/NX u/strong OC. CEZ-970 N.B. fair signal w/WX report @ 5:15am. ERC: The Drake format is named after Bill Drake, a megalomaniac who owns about 16 stations which all sound alike (CKLW, WRKO, CKLB, etc.) When Frank Zappa said "Kill ugly radio" he had Drake stations in mind. (Good job last issue, George! -ERC)

WE CAN ALL SPEND EASTER WEEKEND IN YOUNGSTOWN; LABOR DAY WEEKEND IN SAN FRANCISCO BUT WHERE DO WE GO FOR THE FOURTH OF JULY WEEKEND? ANYWAY, WHY NOT KEEP THESE HOLIDAY WEEKENDS IN MIND, AND MAKE PLANS TO GO TO THE N.R.C. FESTIVITIES SCHEDULED FOR THOSE DATES. A GREAT TIME FOR ALL IS A CERTAINLY AT BOTH GATHERINGS. AND, LET'S ALL MAKE AN APRIL FOOL'S DAY RESOLUTION TO MUSE MORE OFTEN! THIS SECTION SEEMS TO BE IN URGENT NEED OF MORE MUSERS - HOW ABOUT IT, BOYS?

INTERNATIONAL DX DIGEST & PROPAGATION FEATURES

Gordon Nelson, 19 Irma Ave., Watertown, Mass. 02172

REPORTEDLY IN OPERATION...

DOMINICAN REPUBLIC. Starting February 22nd all Dominican stations agreed to relay Radio Television Dominicana at 0000 GMT on weekdays in order to rebroadcast the government program "Escuelas Radiofonicas". This program is prepared by the Secretary of Education to help illiterates in the country to learn to read and write. This is a half-hour program. (C. Objio)

ALASKA. A Cessna 180 flew through the supporting cables of the KICY-tower in a dense fog. Its landing gear caught one of the five cable guys, the second from bottom! The plane didn't crash and the tower, excepting the one cable, hardly received a scratch. (Bengt Ericson)

FRANCE. A new station was established on 1/5/71 and transmits on 584 kHz. The station, known as FIP-514 (France Inter Paris cinq cent quatorze meters) brings to mind a pirate station. DISON is a local station similar to the several vacation stations in Royan, Barritz, or Megeve. FIP-514 is on the air every day from 0600-1900 and can be heard throughout the Paris area. This station relays 30 minutes of France Inter for news at 0700, 1200, and 1900. Station power is 8 kw with plans to go to 10 kw. (Bernard Chenal, France)

MALTA. The BBC Central Mediterranean Relay station, widely heard in North America on 1546 kHz mixed with Vinnitza, USSR around 0400 has moved to 1511 kHz. This change was effective December 8th. (Editor) This should make Malta much more difficult, alas...

SAUDI ARABIA. Dammam, nominally on 890 kHz, has drifted down to 885A and is currently being heard in Southern Europe. (Editor)

GAMBIA. NEW STATION? Nigeria's Major-General Gowon formally opened a new station for Radio Gambia on February 18th; this station was reportedly built at a cost of \$239,000 U.S. and the Nigerian Broadcasting System is to supply the new station with training facilities. No further information is available and additional information would be greatly appreciated. (Editor)

BERMUDA. ZBMT is seriously considering going down to 1230 kHz to reduce the significant heterodyne audible in the remote areas of Bermuda such as Somerset and Sandys. Both of the independent Bermuda stations, ZFB and ZBM, were recently fined by the Bermuda government station for broadcasting programs prepared and produced by the banned Black Beret political party. Midwest and WCNA DX'ers should do their best to nail ZBMT-1235 as soon as possible... (Editor, from Bermuda)

GREECE. The Pyrgos independent broadcasting station has been operating on a new channel of 1349 kHz for several weeks now and is actively seeking reception reports. This one operates with rather low power and, while a regular in Europe, has never made it to North America so far as we know... (Editor)

EGYPT. A new station has just been logged on 809 kHz by an Arctic member; this means that our European members seeking the Abu Dhabi station on this channel will have to be very careful with their ID's... (Arctic)

PORTUGUESE GUINEA. Bissau was recently logged in late February by a Merchant Marine member of Arctic on 1034 kHz while cruising off the Gulf of Guinea. ATTENTION RON SCHATZ. (Editor)

TRUCIAL AMIRATE OF SHARJA. The Voice of the Coast currently operates with the following schedule: 0300-0500 and 1200-1900 on 1250 and 737; news is aired at 0315, 1630, and 1830; local programming at 1600-1605 GMT. (Editor)

QATAR. Doha Radio broadcasts on 674 kHz daily 0230-0600 and 1300-1930. On Friday the station is also on the air 0600-0800 and 1200-1300. North American DX'ers are advised to be careful with ID's on Arabic speakers on this channel since the Libyan is also transmitting here during roughly the same hours. (Editor)

PROJECTED OPERATIONS....

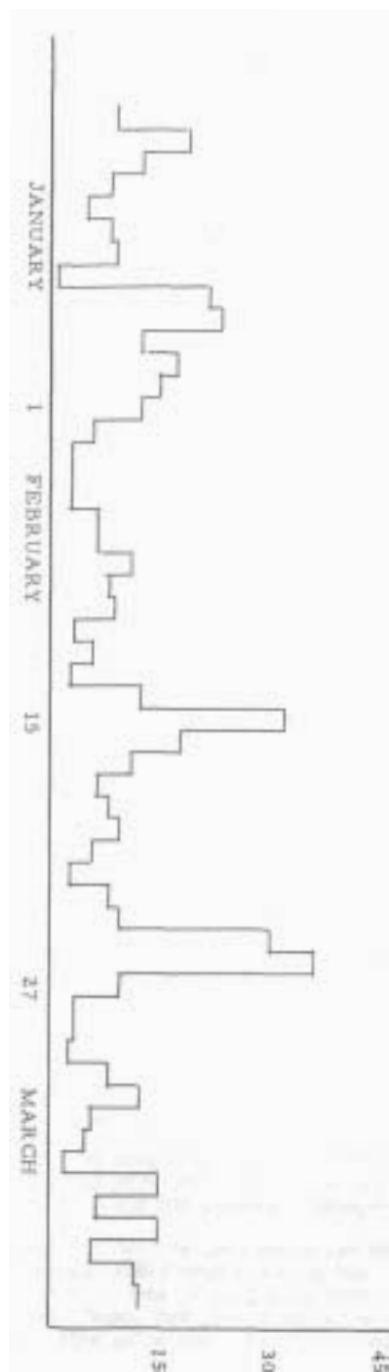
The well-known Trucial Coast figure, Ahmad al-Tadmire, official in charge of information in the Trucial Amirate of Ra's al-Khaymah, announced at the Arab Information Conference in Cairo in February that the study project for the establishment of a broadcasting system in Ra's Al-Khaymah was nearing completion and that transmissions on the MW band would begin in about 7 months if present equipment acquisition plans materialized. **This will be a separate country for NRC Country tabulation purposes when this station goes on the air.** (Editor)



GILBERT & ELLICE ISLANDS. The new IC station is on its way to Naraibai and is hoped to provide a directional antenna for local beamed programming to the Line Islands. (NZDXT)

CLANDESTINE & OTHERWISE UNSAVORY OPERATIONS...

CYPRUS. This island's most politically volatile MW broadcasting operation, Sancak Radio, is an unauthorized station supposedly operated by local Turkish partisans transmitting on 1283 kHz. **During the past few weeks** this underground station ceased their regular relays of "Bayrak Radio" - the established Cypriot Turk clandestine station - and now carries only its own independent music and entertainment features in Turkish. **This would appear to signify a significant restructuring of the Turkish broadcasting operations in Cyprus; further info requested.** (Editor)



This graph shows the daily values of A_p , the Fredericksburg index of geomagnetic/auroral disturbance in the Earth's magnetic field. High values of A_p occur during a heavy influx of electrically-charged particles into the upper atmosphere as the result of certain types of solar eruptions. The medium-wave signal absorption predicted by one of these events is arranged in high latitudes and persists for some days following the initial particle outflow. Values of A_p above about 20 are inevitably associated with high levels of absorption along high-latitude TA and TP signal paths. Very high values (above about 30) are usually accompanied by E-layer absorption over North America and Europe; on such a night stations from the South will appear to dominate most channels. Long periods of low geomagnetic/auroral activity are necessary but not sufficient to guarantee excellent high-latitude TA and TP reception; other ionospheric effects such as the "Midwinter Anomaly" may effectively mask what would otherwise be periods of excellent reception on high-latitude paths during periods of sustained low geomagnetic/auroral activity.



ROBERT L. FOXWORTH
690 BOX 2111
NEW YORK, NY 10001

All Times are G.M.T. in the IDXD section of DX News.

- 590 Dom Rep. Radio Santa Maria, HIDV good 2230 2/25 goes into pgm, "Nuestra Tierra y sus mejores interpretes" with all D.R. mx.. They have stn jingles that sound like a church choir. (Gleason, PR)
- xxx Ecuador. Proposed military station, possibly on 610 or 620 is to be 25kw on MW and tower is up, apx 150 meters high, on the south side of Quito, next to the tower of HCSP-590. (Gleason)
- 655 No. Korea. Pyongyang very strong 1305 2/15 (Kamp, San Jose, Cal.)
- 690 Dom Rep. Radio Guarachita, HIAW 2240 2/25 with ballads, untrue to its name. Has only a fair signal, unlike Radio ABC on 540 which is in strong during daylight and sunset skip hours. (Gleason)
- 690 unID. Attn RFS: Would Cuban stns have Eng lessons? I hrd such here on 2/15 around 1155 sounding much like those lessons hrd on Jap stns; everyone else says that they hrd a Cuban here at that time, XETRA silent then. Help? (Kamp, Cal)
- 698.6 unID stn, gave HIRC, 2/23 and 26 around 0205-0240 with LA, tropical and pop mx. TC after every record with stn name "diez y cinco en Radio ---" and sounded like Radio Voz or Radio Mao. At one time, they did mention ".en toda la Republica Dominicana" in a TC. (Gleason, PR) (Kamp,)
- 700 Japan. NHK2 sync had beautiful sig 1400 2/15 with pips, like a local.)
- 760 Hawaii? Seemed to be a talk pgm 2/15, or a discussion, women: "almost unnoticed...based on length of service" at 0744. Could this be KFMB or KGU? (Bartels, Wisc.) (Welcome to IDXD Bill, your ltr 2 days in transit)
- 760.4 unID. English, of the Caribbean variety 2315 2/23 with rock show, buried under WORA much of the time. A het noted on 760 most evenings. (This might be Demerara, Guyana -ed.) Is noted as is 914 tentatively IDed as Suriman, which is in stronger than 641, less than 725.(Gleason)
- 780 New Zealand/Puerto Rico. Ramey AFB hrd here at 0902 on 3/1 with ABC News. This is the first from this one in a few years. Just before 0900 on the same morning, 4YA was again hrd, was probably the stn noted with soft mx at 0815 and looping W to SW. (Dangerfield, Pa.)
- 844 Gilbert and Ellice. Tarawa was in at 0842 on 3/1(and later) for the best signal from this one this season. (Dangerfield, Pa)
- @ Tarawa hrd best ever 2/15 mostly with women talking until 0900 then with different songs and pgm went to at least 0917; didn't they used to have s/off before this? (Bartels, Wisc.)
- 870 Hawaii. KAIM Honolulu 2/15 with a real good signal, better than KORL at times; relig pgm at 0727; at 0802, "this is KAIM in Honolulu."(Bartels)
- 880 New Zealand. LYC Auckland on 2/15 with a talk pgm ending, I believe, at 0800. Faded with classical type mx to about 0857 when man spoke and mx continued. This was a great night for the Pacific. The other monday (which one?-ed) only hrd a classical and opera mix. (Bartels)
- @ Probably LYC hrd here at 0838 3/1 in W/SW direction and was not confused with either of the Brazilians or Radio Union. However, as usual when trying for LYC, I could not pull a fade-in at the right time. So, can't be positive-yet.(Dangerfield) (March has always been good for DJS-ed.)
- 890 Colombia. L.V. de Bogotá overriding WLS MM 3/1 0710 with amnt "Instantáneas .. La Voz de Bogotá informó primero" (Hauser, PSC Box 42309, Kelly AFB, Texas 78241)
- 900 Barbados. Logged 0948-58 1/25 with religious pgm, at 0940 2/1 "Bobby Martin sings Little Green Apples" and good sig both times.(Bartels)
- 910 Mexico. XEAO, Mexicali on MM 3/1 0725 time jingle, advice on castrating cattle; "5-19-91, musica moderna en la nueva A-O, Radiorama" (Radiorama emphasized) rock, SINPO 54444 (you SWERS! -ed.) and doing well for 250 watts. (Hauser, Tx)

- 916.8 unID. Hrd 2/26 0250 with mx, looped HJ-, HC-, or HO-. This is not the same as the 914 visitor, which loops towards Surinam, and was hrd simultaneously. (Gleason)
- 920 Ecuador. Radio Colon, Quito now using Collins 10 kw rig from Conocoto, 10 miles E of Quito in the same valley as HCJB. S/off is around 0430-0500, as they play cl mx from 0300 on and close at the end of the last work. (Gleason)
- 945 Ecuador. Radio Ifesa, HCDE2 0100 2/26 with fair signals, music show. They must have their new (actually it is reconditioned) 10 kw rig in service now; they have had it in preparation for a year. An American, named Joe Megan, is in charge of the technical aspect. (Gleason)
- 1031.5 unID. (Likely 1032, see next-ed) with lots of polical news at 0030 2/28 with ment of Prensa Latina, Cuban nx agency; not hrd since(Gleason)
- 1032 Cuba Radio Caribe still varying widely with distorted carrier often giving WHO a hard time, here 2/24 0159 with ID, TC (Hauser, Tex)
- 1040 China. Peking very good with WHO 1240 2/15. (Kamp)
- 1057 Nicaragua. Radio Masaya, YNLL 2/24 0258 with ads for Leche de Magnesia Phillips, and Bayer Asperina; 0300 ID as "Sintonizan Radio Masaya, la primera" (Hauser)
- 1100 Antigua. 2/1 1008 with Air Grenade (huh? Grenada? Grenadine?-ed) ad, 1010 amnt "on the move with Zed-Dee-Kay" and also a good signal on 1/25 also. (Bartels)
- 1124 Libya has been very strong lately at s/on time at 0400, in the late evening here and they seem to turn on their carrier at 0330 and it really is a powerhouse. In mid-February, they had good audio until almost 0500. (Dangerfield)
- 1170 unID. Noted 0710-0720 1/10/71 with man and woman taking; did not seem to be in Spanish; could it be Sweden? Loop was too fartb the north for Spain. Hrd music at 0724, I believe "A hard Day's Night" and mostly talking for the next half hour. Faded out 0801. Very few TA's noted that night. (Bartels, Wisc)
- 1280 Mexico. XEAW, Monterey, NL with jingle IDs as "AW", ad for mosaic maker, time 3 min slow, WDSU looped out (Hauser)
- 1345 Ecuador. Radio Paz y Bien, Ambato fair sigs 2/26 0100-0230 with music shows, block programmed. Many familiar ads, also. Is 3 kw. (Gleason)
- 1385.4 Haiti noted in Spanish (with a French accent,yet) 2/24 with a good signal. Many Spanish ads for Port-au-Prince places and LA MoR (Gleason)
- 1414.5 Super wierd unID. 0015 2/26 hrd a splattered, distorted signal here giving Spanish lessons for persons speaking Quechua. At about 0024 they gave a list of the locations of the Escuelas Radiofonicas and the enrollment + name of teacher, all listed alphabetically by province: Chimborazo, Tungurahua, Cotopaxi, Pichincha, etc. 0025 gave ID as Escuelas Radiofonicas Populares, then into instr record like Paul Mauriat, or similar. 0030 had amnts by a YL. Was hearing Voz de Cereté behind this one at all times. Was very hard to measure center of carrier with BFO as it was badly splattered (much like a transmitter with out-of-tune tank circuit-dfg) and at times was so distorted that I could not copy the pgm. No other HC-- was particularly strong, although in general, HC's were stronger than I have seen in the time since I have had the R-390. Was gone 15 minutes later. (Gleason, PR)
- 1415.6 unID. of above? Noted HIVG, La Voz de Momento, La Vega, with mx pgms at 0015 on 3/1. The audio of the D.R. stn was similarly distorted as was the unID with seemingly HC- pgms. Perhaps was the HI with an Organization of American States feature, or something similarly dull from the VoA. Still, that does not explain the actual Spanish lesson broadcast..unless that was being used as an example of teaching methods? ?? (Gleason, PR)
- 1457 Further on my report of 3/2: My unID is relaying BBC World Service, but I can't get the location - I think Africa was mentioned, and 211 meters, along with another freq. Hrd appx 0100-0215 and 0300 to ??.

(continued)

1457 (ctd) Was very strong both 3/4 and 3/5, 0300-0400; fades after 0330. It loops higher than I said on 3/2 reception. (Dangerfield, Pa)(more) Lots of activity here of late. I think Rumania is the strong signal being hrd 0330-0400 on 3/1, with a man and woman alternately talking, and songs by a woman. At 0430 on 2/23 there was another station mixed with the above, but it seemed too early and too weak for Clevedon. Then, at 0125 and later on 3/3 a station hrd here which loops towards the Azores and Morocco, but I don't think, towards Rumania. Had mostly news in English by men, and was still there at 0400. There is no African in this direction except Zambia, unless Nigeria has returned. (Dangerfld) (Ben sent the top part of this rpt after the bottom part, hence the inversion-ed)

1457 Romania. Finally hrd this one with good TA cx present from abt 1350 on up, freq-wise. Hrd MM 3/1 0420 in some Slavic lang or other (Romanian?-ed) Excellent sigs, to s-9 with woman talking and occasional instr selections. (Edmunds, NJ)

1475 Costa Rica/Austria. By comparing tapes with Page T, whose was made at the same time, and filtering, I have decided my unID was Radio Monumental breaking thru with gal anc in Spanish thru Vienna OC, then Vienna's IS obliterating the spanish speech. The IS is actually 4 notes, F-C-A-C with the first C lower than F, the second an octave above and the A in between. Also I think Cryova (Craiova) 1457 has boosted power to the 200 to 400 kw range (Edmunds, NJ) (sri out of sequence-ed)

1505 Anguilla. On 1/27 a real good signal, voice low, singing 0058-0113, hrd little Green Apples. (Bartels, Wisc)

1525 unID in Russian, very strong 2315-2330 on 2/16. Man and woman speaking, a slight hum in the background. Sounded much like the Russian on 1546 which, if it was on, was very weak at the time. (Dangerfield, Pa)

1536.7 La Voz de Petroleo, Barrancabermeja hrd 2/26 0045-0100 with phone-in pgm of questions and answers, and records. Deep fades. (Gleason)

1574.8 Ecuador? La Voz del Banco, El Banco, 0010-0040 3/3 with Caracol and local ID (Is this Colombia?-ed) at 0030, had Gillette Cavalcade of Sports, and newscast 0010-0015 (Gleason) (HJLC?-ed)

1589 Mexico. Believed to be XEMB, Monterrey off freq 2/24 0202 with Mexican mx, 0205 ID ack'g req'sts from Cd. Acuna and still in at 0227. (Hauser)

1600 Mexico. XERCP, a 200-watt daytimer in Purépero, Michoacan, appears to be on now (was pending in VJ Log 6) since several SW DXers and myself have hrd it mornings and eves on 3200 usually with 0130 or so s/off. Slogan is Radio Alma Musical. (Hauser, Tex)

Verification

700 Jamaica. JBC sent standard v/q for 1/21. Signed by R.M. Bent, Dir. of Engineering and Bldg. Services. (Sullivan, Mass)

700 Ecuador. V/q with pix of HCJB-TV tower (do they send pix of their BC towers to TV-DXers-glotz asks?) regally reposing above Quito rcvd 2/25 for 12/14/70 test; also sent Eng pgm sked. V/s Roger Stubble, DoE. Sent specific v/l separately, arrived 3/1, signed by Clayton Howard; indicated that there were many reports on the test. (Sullivan)

830 Japan. JOBB Osaka, Radio Japan Expo-70 v/q with JOBB-830 Osaka typed in, also SW rpt forms and calendar, 10 months, by air, returned IRCs(Kamp)

870 Hawaii. KAIM sent short verie letter for 2/15 report, back in 9 days, signed by Loren F. Bridges, GM, Box 375, Honolulu. (Bartels) (Note Russ Edmunds, why not write this gentleman and ask him the freq of his new station. He should be the one to know, hi -ed.)

880 New Zealand. Verie letter and card from LYC for 2/15 report. Stn operates 6a-1a local, plays cl and operatic, back in 9 days, Arch Crabb is signer. (Bartels, Wisc)

1505 Anguilla. Verie letter for report for 1/21 in 3½ weeks, signer is Roy Dunlop, Director, for H.M. Commissioner's Office. (Bartels)

Changes

Broadcasting, p.58 of the 3/8 issue carries notification of WIAC San Juan receiving a CP to change to 740 kc; if I am not mistaken, someone is

LA TOPICS

Very few NRC members have had the opportunity to visit a Latin American radio station, and the difference between such stations and their stateside equivalents make for greater understanding of why the DXer is not always rewarded in his quest for a verification.

The two stations I will detail briefly are both Ecuadorian operations and, while typical in many senses, are not exactly like all LA radio operations. The city of location and the individual station's rating, as well as the general economy of the country, will make some stations more completely staffed and others less well administered.

Radio Carrousel operates 24 hours a day on 655 kHz from Guayaquil, Ecuador, Guayaquil, which has a population of 1,200,000, is the major trade and manufacturing center for the country. Advertising rates are about 15 Sucres (75 cents) for each spot on the top stations and about 3 Sucres (15 cents) for the lowest rated operations. Carrousel has one of the most controlled formats of any local station and limits itself to only one 30 second spot after each record. No news is broadcast at all.

The station is located about 10 miles north of downtown, on a main highway towards the interior. The area is wasteland and swampy. A quarter wave tower is fed by a US built 3 kw transmitter. The studio, in a second room of the cement building housing the station, is one of the country's most modern, with solid state equipment and a number of cartridge machines. Announcers, in 6 hour shifts, man the whole operation single handed... announcing, playing of records and spots, checking the transmitter, and answering the ever-ringing phones. In event of technical problems, an outside engineer is called. Like most Guayaquil stations, it has no engineer on the staff.

The business office of the station is located in a modern office building on the main street of Guayaquil. There, a secretary handles calls and the scheduling of the announcements. An accountant and a business manager round out the staff. As the station rates #2, within mere tenths of a percent of #1, no salesmen are necessary to obtain business. As the station was formatted by an out of the market consultant, programming is handled by one of the DJs, who purchases new records and updates the playlist. Obviously, very little time is given to things that are not directly concerned with the commercial operation of the station.

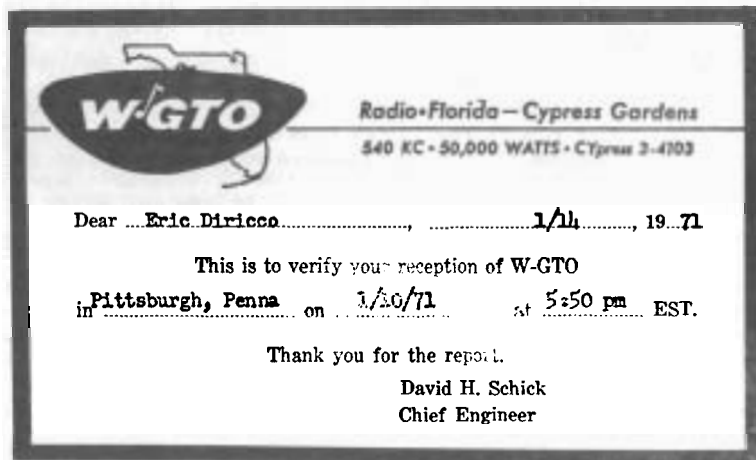
Radio Ritmo was a Quito radio station operating on 595 kHz until its financial woes made it a prime target for takeover by a local group operator. The studios, located on an off the way street just outside the business district, consisted of 2 small rooms. The studio console consisted of a modified hi-fi amplifier with 5 selectable inputs, a V-M tape recorder and two modified home record changers, plus the microphone from the tape recorder. Music consisted of a large pile of 45s produced locally. News was read directly from the local press without rewriting. Two announcers had 8 hour shifts on the air and were backed by a secretary and an owner-salesman. The transmitter was linked to the studio by an open wire audio line

strung on phone poles. The site itself consisted of an adobe hut with a home brew transmitter in it, connected directly to a longwire antenna about 25 feet above the ground. And the ground system consisted of 14 copper radials each 30 feet long. The whole value of the station was put at less than \$3,000.

As one can conclude, broadcasting in most countries of Latin America is hindered by lack of good equipment, low advertising rates, intensive and excessive competition, and inability of fully staffing a station. Thus, from the point of view of a DX'er, there are far more obstacles in the way of verification than for equivalent US operations. And although no Latin American country requires the level of engineering excellency prevalent in the US, so "Chief Engineers" seldom exist at all but the biggest stations in the richer countries.

If of interest by the membership, further articles containing information on the status of broadcasting in Latin America, as well as write-ups on various interesting stations will follow at prudent intervals.

Dave Gleason WUNO San Juan (and representing Nucleo Radion Ecuador)



Don't miss the NRC Pollution Spectacular in wonderful Youngstown, Ohio on April 10 and 11 at Jerry Starr's. Come and see what's really growing under all that smoke.

BEANS IN YOUR EARS?

Ronald F. Schatz

In a previous article (XXXVIII, 18 p18) we mentioned how our ordinary comprehension of speech was a matter of pattern recognition, by which we are largely unconscious of the exact pronunciation of every or any individual syllable. We can go further and state that we hear mostly what we expect to hear, so that we literally fail to "believe our ears". This causes much of the confusion when it comes to copying and DX'ing foreign stations. Below we illustrate the more common barriers of ignorance that plague most DX'ers in this manner:

1) The last letter of the alphabet, Z, causes much international confusion. The letter is called "zee" only in the United States, the Philippines, Liberia, and Japan. Elsewhere in the English-speaking world, including Canada, it is called "zed" (after the French "zède"). Most Canadians know of the difference; most Americans do not. The price is paid nonetheless: A Canadian DX'er ignorant of the facts can listen to WBZ-1030, yet swear he's heard "WBC". An American DX'er may go batty trying to make sense out of ZNS1-1540, which is "zed, en, ess, one". All those British-colonial "Z" calls, like ZIZ, ZDK, ZCO, etc. use "zed". Canadian DX'ers of outstanding skill should note that Philippine calls, such as DZMB, use the American "zee".

2) DX'ers of Spanish-language stations have similar problems, in fact more so. The letter "Y" has two names in Spanish: The most commonly heard is "yeh", usually as part of a YN-, YS-, or YV-call, but look out for "i griega" (ee-CRYEH-gah) in many cases. Only recently a DX'er was thrown by the latter as a part of the Mexican XEYP. CMKY-1350 in Cuba also uses "i griega".

3) Another Spanish letter of confusion is "W". Some call it "doblevé" (doh-bleh-BEH), while others call it "dobleú" (doh-bleh OO). "Dobleú" is heard in XEW, YNW, WKAQ, TGW, that is, in México, Central America, and Puerto Rico. "Doblevé" is heard in Cuba (CMHW) and several other countries.

4) Spanish "B" and "V" are unique. Both are called "beh" and both are pronounced like a soft English "B". They are different only in print. A DX'er must rely on a printed log or a verie to figure out whether the "beh" he hears is a "B" or a "V". Until printed word gets out, the Costa-Rican "Radio deh beh" (1225 kHz) could be either "DB" or "DV". Even the natives can't tell which.

5) "Colombia", the name of the country, is pronounced "co-LOME-byah". The Costa-Rican "Columbia", a station name, is pronounced "co-LOOM-byah". Don't be confused.

6) A typical Latin time check goes: "Radio Aeropuerto da la hora". This should not be confused with the more "natural" looking "de la" combination. "Da la hora", pronounced "DAH lah OH-rah", means "gives the time". "Of the time" doesn't make sense anyway..

RADIO LIECHTENSTEIN? NO!

Now and then reports appear about planned broadcast stations in Liechtenstein. Sometimes Herr Springer ("Bild-Zeitung") is manoeuvring, at other times it is a religious organization. But yet there is no Radio Liechtenstein. In 1920 the mini-state made an agreement with the Swiss PTT and now post, telegraph and telephone are under Helvetian administration. **Incidentally one of the regional Swiss radio and TV societies is supposed to serve Liechtenstein too.**

However there was no broadcasting in 1920 so in Liechtenstein people with a sense of money soon found out that the treaty could not possibly apply to wireless broadcasts. In September 1937 a contract was signed between the Vaduz government and the British Company "Roditi International Ltd". The company was allowed to broadcast on 209.9 meters with a maximum power of 2 kw. **This clause cost them 100,000 Sfrs. Roditi International should have to pay another 200,000 Sfrs for a permit to broadcast commercial programmes audible in England and a further 100,000 when this larger station was taken into use. Besides, Liechtenstein was entitled to a 25% commission on the gross revenue of the enterprise.**

The small transmitter outside Vaduz still stands, but not the aerials from which the announcement "Hier ist Radio Liechtenstein" was first heard at the end of 1938 or beginning of 1939. (The exact date can not even be ascertained through the files of Roditi which still exists). **Transmissions were short and consisted mostly of news and folklore music.**

Meanwhile things had been happening on the Eastern border. Since 12th March, 1938, Austria was part of a larger Reich. On 3rd September, 1939, Britain declared war on Germany. **One day the Liechtenstein government got a warning from the Reich that the broadcasts - produced by the British company - had to cease. If not --- they ceased. The date is not certain, probably in the beginning of 1940.**

Herr Gobbels had not appreciated the broadcasts, but he certainly would have no objection to a (Reich) Sender in Liechtenstein, reading his communiques from neutral territory. At this moment, the Vaduz government re-examined the 1920 treaty with Berne and realized that they had made a mistake: clearly radio had to be included too. **Berne confirmed that this was their view too.**

Since then the matter has been settled: no broadcasts from Liechtenstein without Swiss approval. **This in spite of the fact that the concession to Roditi International is automatically renewed for another 10 years if it is not cancelled five years in advance. So in a way Roditi still have the right to re-open their 2 kw transmissions.**

Of course they will not do that. The interesting prospect is that of a high-power station, reaching most of Europe. The problem is: is there still room for such a station on the bands? Most listeners would agree that the

European MW band is about as crowded as it can be. But who knows: perhaps one day we shall be able to add a Liechtenstein verification to our collection of stamps from there.

Foot-note:

It may have nothing to do with the present negotiations about a new PTT treaty, but still: as far as we know, peace has not been declared since that day, a couple of years ago, when Swiss artillery opened fire against the Principality. **We do not know that a red-faced Swiss commander explained that someone had turned the compass 180 around, but do not feel convinced that this was not only a trick of the devious Swiss Imperialists** Have they not in fact kept military control over the Vatican State for centuries? **We earnestly suggest that Prince Franz Josef II mobilize his army ... only it strikes us that it was disbanded in 1868!** Perhaps he had better, in this threatening situation, to flee with the crown jewels to a Zurich bank?



-30-

POSTSCRIPT: Recently a Radio and TV authority of the Principality of Liechtenstein was recognised by the Swiss delegation at a postal conference at Vaduz, according to a Swiss press report. It is pointed out, however, that radio and TV channels must be internationally granted, before any transmitters can be erected in Liechtenstein. (R. Henrich, Heiden, Switzerland, via SCDX)

GREAT GROK !!!!! IT'S THE YAD-LAND
FUN-N-GAMES APRIL 10 & 11, 1971 AT
JERRY STARR'S IN HUBBARD, OHIO.
This party has been rated X

Beautiful downtown Hubbard is a suburb of beautiful downtown Youngstown. They deserve each other. Find out why on April 10 and 11 at the Yalland DX Gathering and Poultry Eviscerating Tournament. It will be fun. You will like it and say "See!"

----- Ecuadorian Changes - from Dave Gleason -----

I am taking as my base the listing of HCs in the frequency by frequency compilation of the WRTVH, as it is much closer to accurate than the listing under the country heading. Call letters have generally been left out under the criterion that they represent extraneous information.

Here is, first, analysis of Country listing:

Numerical listing	Freq.	Details
5)	HCPC2	580 Now using 1 kw.
8)	HCPC2	605 Obviously not call, name is Radio Agricultura
9)	HCJJ2	610 Not operating, licence not valid.
10)		620 See 1570 (on 1575). Delete 620.
13)		635 Power in 1 kw range. Inaudible 20 mi. from Quevedo. Delete. Lost license.
17)	HCNU2	655
18)	HCLG2	660 Operating on 655. Licensed to 660. 3 kw.
21)		665 Delete. Lost license.
22)	HCSJ1	670 Move to 680. Reassigned to avoid 660.
28)	HCCJ2	710 Canal Juvenil on 1250. Voz del Litoral is old name for same. 710 lost license. Radio Guayaquil on 725. Power 1.5 kw. Not 24 hr. 3 kw. Delete. Lost license. Operated briefly on 825, however. Add "La Voz del Perpetuo Socorro" Cuenca, .5. Irregular, on air fr religious dates. Hard to believe. Check proximity of Guaranda to other two stations on 625. On 810 Delete. Lost license. Radio Punto 83. Correct. (Ochenta y tres) Not operative. Believe deleted. Uncertain on this one. Never heard on visits to El Puyo. Operates Fridays only from 2200-0400. Also on principal religious dates. Inactive since 18 months. On 895, Name is Radio Splendia. 1 kw. Radio Esp. on SW. EST 700-0100. 1 kw. Power .3, 3 kw on SW. Delete. Lost license. Move to 905, check call. Move to 995, power 10 kw. Delete. Lost license. Operating on 1015. Power 1.5 kw. On 1027. Delete. Lost license. Change name to Radio Melodia. Repeats FM. Power .1 kw, 100 watts. Power .5 kw. Is on 1405 (license to 1390). Drifts to high side. Duplicity with 1135. Delete. Inactive, may be deleted.
31)		730
32)		735
33)		740
37)		775
		780
	HCJY4	825
42)		865
43)		825
47)		835
54)		830
55)		855
52)		860
57)		895
59)		900
	HCDO2	905
72)		965
79)		995
80)		1000
118)		1170
81)		1005
82)		1005
87)		1030
88)		1035
99)		1100
107)		1125
110)		1135
121)		1175
128)		1200
110)		1235
141)		1240
144)		1270
147)		1290
33)		1335 Inactive 4 years, believe deleted. Name was Radio Victoria on SW.

167)	1355	distaker entry. Delete.
	1385	Radio El Tiempo, Quito, move to 620.
	1380	(License 1390) Radio Independencia. .5 kw.
168)	1385	Move to 1495.
169)	1390	Is on 1175, alternate name for Voz de los 4 rios.
170)	1385	Not 24 hours. Power .5 kw. 3 kw on SW.
171)	1400	Radio Alfa - Musical, Cuenca, 1 kw. on 1140, not 1400. 24 hours.
177)	1430	10 kw on SW. .5 kw on MW.
187)	1470	Move to 1480.
188)	1475	Delete. Lost license.
192)	1485	Delete. " "
201)	1530	Delete. " "
207)	1545	Delete. " "
208)	1545	Name is Radio Aeropuerto.

That does it for the Country list. Now for the rest,, soon to come in another exciting episode. If the above changes are made, it makes the Country listing quite satisfactory. Add whatever is there to the frequency by frequency, after making the following changes to it. Results will not be 100% accurate...as there appears to be a change a day in HC land. I believe that it will be as close as is possible. Many of the above observations are based on actual reception from Quito, Guayaquil and Cuenca, or from contacts with associated stations in other parts of the country. I can not dare say that even this information is not without error. However, I will make available any new information as I obtain it.

Radio Rochdale is off

By MICHAEL VALPY

Radio Rochdale went off the air in mid-song yesterday morning after four officers of the RCMP carried away the station's transformer, four amplifiers, turntable, tape deck and microphone.

L. I. Greenwood, regional superintendent of the Department of Communications, said Radio Rochdale was operating as an unauthorized station broadcasting on the commercial AM band.

With the equipment seized, the department appeared to be in no hurry to lay charges. "We have a time limit of a year," Mr. Greenwood said. "Mind you—that's the limit."

He said the equipment could be held until the court's verdict.

"When the charges are laid will depend upon the workload of the Justice Department. And then, of course, there are likely to be several remands in court before the case is heard."

The five young men who run the station value the equipment at \$4,500.

Radio Rochdale began broadcasting on Nov. 15. It was

being operated—usually 24 hours a day—in a three-room apartment cluttered with radio and television parts on the sixth floor of Rochdale College at Huron and Bloor Streets.

It broadcast news, local bands and singers and a number of recorded songs that the commercial stations had refused to play because of the language.

The station could be picked up at 1300 kilocycles on standard radio receivers. The operators said it could be received only inside the college and within a quarter-mile radius of the 18-story building.

"The signal was strong enough to reach Buffalo but we never tried to," said Michael Lennick, 20. "We were not interfering with any commercial station in Toronto."

But they were broadcasting without a licence.

"It would have been illegal even if it were just confined to the building," Mr. Greenwood said. "But it was being received some distance away from the college."

How far?

"Far enough," he said.

He said his department learned of the station's existence only about a week ago. He would not give details.

But Mr. Lennick and Radio Rochdale technician Ronald Lyman, 24, said the department has known about the station for months.

"They have a monitoring post only a few blocks from here," Mr. Lyman said. "One of them called us the night our antenna came down and told us we'd gone off the air."

Mr. Greenwood laughed at the story.

The arrival of the four RCMP officers and the Department of Communications inspector, however, did follow by only a day the appearance of the latest issue of the underground newspaper Guerilla, which carried a story about the station.

The station was built from junk, from gifts of old radio sets, and from parts paid for by money earned through the sale of repaired electronic equipment such as electric guitars and amplifiers.

LATEST RED SKEDS

The following schedules for Home Service Soviet programs comes from the weekly publication "Kollegija":

*1st program for Europe, Caucasia, Urals and Kazakhstan -

971 kHz 0615-1500; 1115 0200-2200; 1439 0200-2200 & 1570 0300-1300

*1st program "A" for Eastern Siberia and Far East -

1079 kHz 0100-0800 & 1550 0930-1800

*1st program "B" for Western Siberia -

827 kHz 2300-1600

*Majak program for Europe -

548 kHz 0000-2300; 773 0200-1500; 827 0300-2200; 890 2200-0900;
899 0600-1000; 926 0200-2100; 944 0100-0400 & 0600-1500 & 1700-2200;
1061 0300-1400 & 1700-2100; 1277 2100-0300; 1322 0100-2200;
1430 0600-1600; 1466 0300-2200; 1586 0200-0100

*Majak program for Caucasia -

548 kHz 0000-2300; 593 0200-2200; 611 0100-0300 & 0600-1500 & 1800-2200; 656 0200-0400 & 0600-1300 & 1600-2100; 881 0700-1300 & 1800-2200; 944 same as Europe; 1043 0200-0730 & 1830-2100; 1295 0100-0000

*Majak program for Urals, N. Caucasia and Central Asia -

1025 kHz 2100-1230 & 1630-2000; 1340 2300-2200; 1367 1300-1600;
1385 0300-1200; 1466 2300-2200

*Majak program for Kazakhstan -

737 kHz 0600-1230 & 1600-2300

*Majak program for Western Siberia -

1025 kHz 2100-1230 & 1630-2000; 1367 1300-1600

*Majak program for Eastern Siberia and the Far East -

584 kHz 2100-1100; 629 2100-0730 & 1500-2100; 710 2130-0700;
1010 1800-1400; 1079 2130-0100 & 0800-1800; 1150 0830-1430; 1376
2000-0830 & 1400-1600; 1475 1500-2100

*Third program -

692 kHz 0400-1200 & 1600-2030; 872 0500-2100; 1277 0400-2100;
1367 0400-1230; 1385 0400-1500; 1448 0600-1500 & 1600-2100;
1493 0400-1600; 1562 0400-2100

The local program for the Moscow Oblast is aired over 1570 kHz at 1300-2100 and on 872 kHz at 0330-0400.

(GPN)

Ban Sought on C.I.A. Aid For Radio Free Europe

NY Times 24 Jan 71

By BENJAMIN WELLES

WASHINGTON, Jan. 23— Senator Clifford P. Case, Republican of New Jersey, charged today that the Central Intelligence Agency had spent several hundred million dollars over the last 20 years to keep Radio Free Europe and Radio Liberty functioning.

Mr. Case, a member of the Appropriations and Foreign Relations Committees, said that he would introduce legislation Monday to bring Government spending on the two stations under the authorization and appropriations process of Congress. Representative Ogden R. Reid, Republican of Westchester, said today that he would introduce similar legislation in the House.

Radio Free Europe, founded in 1950, and Radio Liberty, formed a year later, both have powerful transmitters in Munich, West Germany, staffed by several thousand American technicians and refugees from Eastern Europe.

Radio Liberty broadcasts only into the Soviet Union, Radio Free Europe to other Eastern European countries except Rumania.

Case's C.I.A. funding of the two stations has been an open secret for years.

Both organizations have offices in New York and purport to be privately endowed with funds coming exclusively from foundations, corporations and the public. Both, however, are extremely reticent about the details of their financing.

Continued From Page 1, Col. 3

Senator Case noted in a statement that both Radio Free Europe and Radio Liberty "claim to be nongovernmental organizations sponsored by private contributions." However, he went on, "available sources indicate direct C.I.A. subsidies pay nearly all their costs."

The Senator said that the Central Intelligence Agency provided the stations with \$30-million in the last fiscal year without formal Congressional approval.

Under the Central Intelligence Agency's operating rules, its activities—such as covert funding—are approved by the National Security Council. However, disclosure to Congress is limited to a handful of senior legislators on watchdog committees of each house.

The Central Intelligence Agency, Radio Free Europe and Radio Liberty declined to comment today on Senator Case's statement.

Citing returns filed with the Internal Revenue Service in the 1969 fiscal year, Mr. Case said that the stations' combined operating costs that year totaled \$33,997,336. Of this, he said, Radio Free Europe spent \$21,109,935 and Radio Liberty \$12,887,401.

Annual Advertising Campaigns
"The bulk of Radio Free Europe's and Radio Liberty's advertising is done through the C.I.A. program."

participated in authorization of appropriations of funds to Radio Free Europe or Radio Liberty, although hundreds of millions of dollars in Government funds have been spent during the last 20 years.

Johnson Created Committee
Mr. Case pointed out that Radio Free Europe conducted a yearly campaign for public contributions under the auspices of the Advertising Council. Between \$12-million and \$20-million in free media space is donated annually to this campaign, he said, but the return from the public is "apparently less than \$100,000."

Furthermore, he said, both stations attempt to raise money from corporations and foundations but contributions from these sources reportedly pay only a small part of the stations' total budgets.

Senator Case said that his proposed legislation would seek to amend the United States Information and Educational Exchange Act of 1948 to authorize funds for both stations in the fiscal year beginning next July 1. His proposal would call for an initial sum of \$30-million, but he said that the sum would be subject to change.

At the same time, Mr. Case said, his proposal would provide that "no other" United States Government funds could be made available to either station except under the provisions of the act. He also said that he would ask that Administration officials concerned with overseas information policies be called to testify in order to determine the amount needed by the stations.

"I can understand why covert funds might have been used for a year or two in an emergency situation when extreme secrecy was necessary and when no other Government funds were available," Mr. Case said.

But, he went on, the justification for covert funding has lessened over the years as international tension has eased, as the secrecy surrounding the stations has "melted away," and as more open means of funding could be developed.

"In other words," he said, "the extraordinary circumstances that might have been thought to justify circumvention of constitutional processes and Congressional approval no longer exist."

Mr. Case pointed out that in 1967, after there had been public disclosure that the C.I.A. had been secretly funding the National Student Association, President Johnson created a committee that was headed by Nicholas deB. Katzenbach, the Under Secretary of State, and that included Richard Helms, head of the C.I.A., and John W. Gardner, the Secretary of Health, Education and Welfare.

He further noted that on March 29, 1967, Mr. Johnson publicly accepted the committee's recommendation that "no Federal agency shall provide covert financial assistance or support, direct or indirect, to any of the nation's educational or voluntary organizations" and that "no programs currently would justify any exceptions to this policy."

People familiar with the operations of Radio Free Europe and Radio Liberty noted that both had been started at the peak of the Cold War and that just "gone sailing off" ever since. The Katzenbach committee, some sources said, had cut off covert funding from virtually all other recipients.

"They saved all the truth goes," one source said, "but they were under such pressure from Johnson to get their report out and get the heat from Congress and the public out off that they didn't solve the funding of the stations. They turned it over to another committee."

Philip L. Sullivan

Most DXers often want to know the distance and bearing to a distant station. These quantities can be found by direct measurement on a globe or can be calculated using the appropriate equations. While the formulas are simple and can be calculated by hand the numbers get messy if you try to carry enough significant figures for a useful answer - slide-rule accuracy often isn't enough.

Fortunately the problem is easily programmed onto a computer and within minutes the distance and bearing to hundreds of places can be found. The next page gives such a program.

Outline of the Program

The program proceeds as follows:

- 1) The name and coordinates of the base point (the DXer's QTH) are read in and the coordinates are converted to radians.
- 2) The sin, cos and tan of the latitude are computed and stored.
- 3) Titles are printed.
- 4) A card is read giving the name and coordinates of the distant QTH; again a conversion to radians is made and various trig functions are computed.
- 5) The distance and bearing are calculated and printed out.
- 6) The computer returns to step 4 (statement 17) and repeats steps 4 and 5 for each card in the data deck.

Use of the Program

This program is written in FORTRAN IV, usable on most computers. It can easily be converted to other FORTRAN systems, usually with a few changes in the input/output statements. The I/O logic numbers (the first numbers in a READ or WRITE statement) refer to a card reader and a printer and may have to be changed from the 1 and 3 used here - they will depend on the computer system used.

The program is written for the output device being an on-line printer and appropriate control characters (the 1 after the 53H in FORMAT 2, etc.) have been used. Output may be on a typewriter, however it will then take several seconds per location vs. about 1/5 second when the printer is used.

When punching cards note: A zero is 0, the letter "O" is U.

Data Cards and Control Cards

Below are shown samples of 2 data cards and 2 control cards:

```
TORSHAVN, FAROE IS.      1. 57. 6. 48.
NOUMEA, NEW CALEDONIA   -22. -16. -166. -28.
1 SOUTH AMERICA         100.
NIBI-NIBI                99.
```

The first 2 are data cards and are punched as follows: The name of the QTH is punched in columns 2-40, the latitude is punched with degrees in 41-45, minutes in 46-50, and the longitude is punched with degrees in 51-56, minutes in 57-61. North latitude and west longitude are positive, south and east are negative and require a minus sign for both degrees and minutes (i.e. Noumea is at 22°16'S, 166°28'E).

Coordinates for most cities can be found in atlases, either in the index or by interpolation of the maps. Use the highest resolution map available as the answers will be no more accurate than the input data. Topographic maps from the U.S. Coast and Geodetic Survey provide good sources for U.S. locations. Many other sources can be used (such as WRTVH, National Geographic) - I even got the

```

1 READ(1,1) TD1,V1,CD1,Cd1
125.0,2P10.1)
TI=.290832E-03*(60.*TD1+TM1)
CI=.290832E-03*(60.*CD1+CM1)
SI=SIGN(SI)
CI=COS(TI)
TV1=SI/CI
WRITE(2,2)
2 FORMAT(5H1GREAT CIRCLE DISTANCE AND BEARING EAST BY NORTH FROM)
WRITE(3,1) TD1,V1,CD1,CM1
WRITE(3,1)
3 FORMAT(4H1X,3RELATIVE LATITUDE DEGREES DISTANCE
17 READ(1,1) TD2,V2,CD2,CM2
IP(TD2-09.) 13,60,9)
13 T2=.290832E-03*(60.*TD2+TM2)
D1=C1-.290832E-03*(60.*CD2+CM2)
S2=SIGN(T2)
C2=COS(T2)
SL=S1*(D1)
CL=COS(D1)
CU=S1*S2+C1*C2*CL
SD=S2*(1.-CU*CD)
D=.795*.66*A-AR(SD/CD)
IP(CD) 51,52,42
41 D=3*124.30,21
42 SPM=C2*SL/35
SPM=57.29578*AR(35PM/SDRT(1.-SDPM*SDPM))
IP(S2/CD-CL*TH1) 93,94,96
93 SPM=150.-3PM
94 IP(SPM) 95,96,98
95 SPM=SPM+300.
96 WRITE(3,1) TD2,V2,CD2,CM2,D,S,SPM
97 CD 17
98 WRITE(3,1)
99 STOP
END
```

.275.0,96.0.

coordinates for Nuku'alofa off a Tongan postage stamp!

The third card shown is a control card - recognized by the 100. punched in columns 41-45 (i.e. a "latitude" of 100°N). When the computer reads such a card it merely prints the contents of columns 2-40 and goes on to the next card. The 1 in column 1 causes the printer to skip to the top of a new page before printing the words "SOUTH AMERICA" (a blank in column 1 would result in no skipping, a 0 would cause one line to be skipped). Columns 2-40 may be left blank but 100. must be punched in columns 41-45.

The last card is also a control card, it is used to stop the program - the only part needed is the 99. in columns 41-45.

Arrangement of the Data Deck

The data deck is stacked behind the program, separated by the appropriate Monitor control card (/XEQ, /DATA, etc. depending on the computer used). The first card of the data deck is the base point card - the one giving the DXer's QTH. Following this the remaining data cards are stacked in the order desired. Control cards may be inserted at any point or may be omitted entirely except the "99." card which must be the last card in the deck.

It is hoped that most people who will have a chance to use this program are familiar with some of the basics of the FORTRAN language and computer operations in general and will thus be able to follow this rather sketchy outline. Those unfamiliar with FORTRAN who would like to learn enough to better understand this program are advised to read "Programming the IBM 1130 and 1800" by Robert K. Loudon (pub. by Prentice-Hall, Englewood Cliffs, N.J., 1967), particularly chapters 3,4 and 5. Other FORTRAN texts are available and would be of help too, however the one mentioned is among the easiest to follow. If questions do arise, ask someone who has had experience with programming and/or myself.

A UNIQUE BOOTLEG QSL!

VERIFICATION OF RECEPTION	
CALL:	WNDI Radio
DATE:	November 25, 1966
TIME:	Noon to 1:15 p.m.
FREQUENCY:	1040 kHz.
TRANSMITTER:	"Home Brew" (15 Watts)
ANTENNA:	20 ft. Vertical (Base Loaded)
REMARKS:	105 - Don Roberts (a unique in my life)

This illegal station was operating from the west side of Cleveland and was heard by Phil Sullivan in Solon, Ohio (17 miles distant)..

LETTER FROM A PIRATE

Broadcast Band DX'ing occasionally includes non-licensed or so called "Pirate" stations. One of our members recently received the following letter in response to a verification request from a "pirate". Although the writers intent places him in the same category as draft-resisters and campus protestors, I believe his words are worth reading as an honest portrayal of the broadcast band's anti-establishment group.

CAR

... You will find a QSL card enclosed. First of all, let me state that we are NOT Hams. We started this endeavor for a different reason than just to chatter about plate current and the fact that we could really put a carrier on. I am not putting the hams down. it's just that they're limited. And thats the point of the whole thing. WE are limited. We started because we love radio-but REAL radio; putting together a station and programming it; letting people hear what the others won't play (or say). Now, it would have been nice if we could have taken a test or two, paid a reasonable fee and got an AM or FM channel assignment. But when we tried, we got a surprise - broadcasting is powerman's trip - to have a station you don't need to love radio, know music, love people or be dedicated - all you need is money (plenty of it) and the desire to make more. There is always a channel for the man with bread. Hams for example are forbidden to "broadcast" (as stated in the FCC rules & regs) ; hams are forbidden to play music of any type; ETC ETC ETC. So you see, the only channels we have a chance in are so severely regulated that they are worthless. Stated simply, people like you or I can never have a station the way the structure is now - no matter how talented or proficient we may be. So we took to the air the only way we could; - illegally. It is our purpose to change this. Talented and dedicated people who love radio should have thier chance at thier own station, not twiddeling the dials on somebody else's. We are also working to bring freedom to the airwaves - "FREEDOM OF SPEECH" that they drummed into our heads in grade school - this is AMERICA the land where any man can grow up to be President. Good - than anyman should be able to have a radio station, and a free speech one at that - let's get away from all this absurd censorship - if people don't like something they hear on the radio, they have no right to take it off, they should do what I do, change the station. Simple solution.

Forgive me for preaching but the FCC paid me a visit last Tuesday night to tell me that broadcasting was a no-no. The agent himself was a nice guy - I remember he kept saying "I still have to get W---", in other words - make sure you warn them, I'm giving you that chance. It is re-assuring when the guy turns out to be human,

Well, I hope you like the verification card, and I hope you liked the Programmes. WE ARE NOT DEAD BY ANY MEANS.

YE OLDE LOG BOOKE

by

Dan K. Phillips K4FNR

The two most valuable possessions a DXer has are his veries and his logbook. He can tear up his receiver and get a new one, but a lost logbook can never be replaced.

Several years ago I came to the conclusion that the ideal logbook should be small enough to carry on trips and yet big enough to contain all necessary DX information.

I tried regular size notebooks, four section composition books, and even plan notebook paper. One of the problems was that every couple of years I found myself re-copying old logs. This is fine when you have logged about 200 stations, however, as totals approach 1,000 or higher it becomes very time consuming.

I finally settled on a 9 inch by 7 inch three ring binder with pockets inside each of the covers. The one I use is made of virgin vinyl. These cost about two dollars.

I then got about 150 sheets of 8 1/2 by 5 1/2 inch lined filler paper and a set of indexes (cost is \$.15) I then divided by logbook into five sections. These sections are:

1. List of stations heard by frequency.
2. List of veries received by state.
3. Frequency check lists and changes as compiled by DX News.
4. Foreign section IXDX.
5. List of all daytime non-directional stations in the surrounding states.

With this accomplished I began part one. I took one sheet of filler paper for each frequency. The information in this section is for stations heard only.

For example on 740 kilocycles the sheet contains the following information:

740 kcs.

<u>(Call)</u>	<u>Location</u>	<u>(My DX Location)</u>	<u>Date Heard</u>
WGSM*	Huntingdon, N. Y.	(Louisville, Ky)	10/27/69
WJIG	Tullahoma, Tenn.	(Huntsville, Ala.)	7/19/69

* The asterik by the station indicates it is verified.

This section is hand written and can be added to whenever a new station is heard or veried. Also if any splits are heard,

such as YND on 675 kcs., then another sheet is added for that frequency. With this system it is not necessary to re-do the log every year or two.

In section two I type the veries I receive from each state on a separate page. This page contains the following information:

CALIFORNIA

<u>No (received)</u>	<u>Call</u>	<u>Location</u>	<u>Freq</u>	<u>Power</u>	<u>Type</u>	<u>BCB</u>	<u>Date Received</u>
1	KFWB	Los Angeles	980	5000	RS		11/13/58
2	KKIS	Pittsburg	990	5000	DX		3/26/59

A separate page is listed for each state and for each country.

In section three I take the NRC frequency check list, punch holes in it, and place it here. If anyone else hears an new checks I put them on another piece of filler paper and put it in this section.

In section four I take the IXDX section of DX News, punch holes in it, and place it here. This means that DX News must be disassembled. This also can be done with RJE's section and with veric signers list.

In part five I list all non-directional daytimers, by state, which I have not heard. For instance, one filler would contain just Indiana stations. It looks something like this:

INDIANA

820 WIKY Evansville
860 WMRI Marion

The advantage of such a list helps log daytimes. For instance, when WNOE 1060 in New Orleans is coming in good I try for Louisiana daytimers. I just take my Louisiana list out and use it. A keying station is needed for each state. WVOK for Alabama, KAAV for Arkansas, and KCTA for Texas are good key stations. By listening to the key stations a DXer can soon pinpoint the direction that the DX is coming from.

I also use a steno flip over notebook to list my daily loggings. If I hear a new station I put a star by it. Every two or three months I take all of the new stations out of the steno book and add to the permanent log.

The side pockets of the permanent log are handy for other information, such as the condition of frequency lists.

When it comes to veries I place them in school size three ring binders. I put all of the same states together. Plastic

covers can also be used to help keep the veries. They are fairly expensive so I use them only for foreign veries or QSL's.

I hope this helps the new DXers who are wondering what is the best way to keep their DX materials. As I say again, "the notebook is small, and portable." Selah



ANARC

REPORT

New Executive Secretary for ANARC: Wendel Craighead (2110 W. 7th Terr., Prairie Village, Kans. 66208) is the new Executive Secretary of ANARC, succeeding Gray Scrimgeour.

ANARC Takes Killing on International Monetary Market: Two years ago, when KGS became Executive Secretary, ANARC funds were transferred to Toronto and converted to Canadian dollars at \$1 (Can.) per 92½¢ (U.S.). Now they have been reconverted to U.S. dollars at a more favorable rate 97¢ U.S. to the Canadian dollar - a nice bonus for ANARC.

ANARC Goes Public: Well, the ANARC Newsletter does, anyway. This monthly publication is now available to everyone for \$2.00 per year. This is a 2-8 page summary of news from the various ANARC clubs and ANARC itself, plus occasional special articles and news about the European DX Council. Make checks payable to Wendel Craighead (not to ANARC) and send to him at the above address.

New Clubs: First it should be noted that the Midwest DX Club has now reached full membership in ANARC; it was formerly an associate member. New associate clubs are:

Club des DX'ers du Quebec, Box 34, Sillery, Quebec City 6, Que.
Idaho DX Assoc., 5805 Flamingo Dr., Boise, Ida. 83704
Virginia DX Assoc., 5304 Fitzhugh Ave., Richmond, Va. 23226
Rocky Mtn DXers Assoc., 3161 So. York St., Englewood, Colo. 80110
All the above are all-band clubs. CDXQ's bulletin L'Ecoute is in FF.

MERGER: A possible merger between the Batesville SW Assoc. and the new RLDXA is being considered, both clubs having had some publishing problems.

Merit Awards/LOY: A new series of awards, maximum of 12 per year, are the ANARC Merit Awards. These certificates will be presented to individuals who have made outstanding contributions to the hobby - long term editorship, great activity in club affairs, exceptional DXing, etc. Any member of any ANARC may nominate someone for one of these awards - the nominee need not be a member of an ANARC club. To make a nomination send 4 copies of a letter telling who and why to Gerry Dexter, Rt 1, Maple Rd., Lake Geneva, Wisc. 53147. Also send a SASE. It is also time for nominations for the ANARC Man of the Year Award - qualifications are the same as for the Merit Awards except the person should be even more outstanding. These nominations should also be sent to Gerry Dexter.

1971 ANARC Convention: Two bids have been received - one from IRCA to hold it jointly with the IRCA convention, either in San Diego or Toledo. (SD site to be within the included parts of that city). The other bid is from Serge Neumann and Kris Lenna to hold it at a HI in Indianapolis. Anyone wanting to submit a bid should contact Wendel Craighead at the above address.

Philip L. Sullivan



The big Youngstown Area DXers party will be April 10 and 11 and all DXers are invited. Why not come and bring a carfull. It'll be more fun than standing in aml. Free toast of Niles included.



EDITOR:

r.j. edmunds
box 946
wayne, n.j. 07470
(201) 335-6397

sunset & evening

1050 KCAS-TX Poor u/XEG W/ s/off 1930 2/26
1270 KINN-MI Vy gd w/ SID 1939 3/1
1280 WUTC-MI Poor w/wx, SID, suspicions confirmed when WWC0-830 had same
forecast at 0000 mx/ this one hrd 2345 3/1
1470 KKEP-CO Noted s/off later than other CO stns in March. Others off
2200, KKEP later, how? ** If this one is located in the NW
corner of the state, that's how -RJE

Small column this time, guess cx are beginning to take their toll.

midnight to sunrise

780 KCRL-NV 0257-0305 3/1 w/ cl mx and anct for s/on at 1030???. Rough
thru OC, which I believe was YVOD. (Wes Boyd, Youngstown,0)
930 KCCC-NM Excellent sigs on ET, ending 0230 2/27 (Blake Lawrence,
Canon City, Co) ** Blake, I'd guess yr unid here was also
this one. Breaking FCC rules by not ID'ing ET's is so preva-
lent that the exceptions are those who do ID. -RJE
1070 KNX -CA Was off MM 3/1, also hrd that they were off 2/1, so maybe
a 1st MM SP. (BL)
WIBC-IN Poor u/KNX ET-OC-TT, then good after, w/ MoR & SID 0439 3/1
* x970 WWSW-PA Off 0230 (TT to 0255) then silent, 3/3 (BOYD)
1090 WKTE-NC IRCA DX hrd 3/8 0305 s/on to 0330 w/ gd sigs despite adj.
channel QRM (Tom Sundstrom, Willingboro, N.J.)
1110 KPAB-NB Off SM 2/28 (BL)
KRLA-CA Hrd w/fantastic sigs w/KFAB off 0220 2/28 w/rr, vy strong(BL)
1120 KMOX-MO Noted ET'ing during much of their 1st MM SP 3/1 w/OC & mx(BL)
1130 WCAR-MI Fair o/u CKWX w/ "Car Cares" PSA & MoR 0506 3/1 (BL)
1270 CHAT-AB Good s/off 0310 2/28 (BL)
* 1300 KOZE-ID Hrd w/ ad for Sears in Lewiston 0510 3/1, change of sked??(BL)
+ KOL -WA IS NOT NSP . Hrd w/ ET 0537 3/1 (BL)
x 1230 WBLJ-GA W/ super signal 0105 to 0300 on TEST (Boyd) 3/1
1340 KSET-TX Exc. w/ID as "prestige radio" 0200 2/28 (BL)
1380 WAMS-DE Hrd faint 0300 2/22 w/ ET 0240-0300. (Ron Musco, Windsor,CT)
1450 KVSL-AZ Good 0056 2/28 w/rr (BL)
1530 KFBK-CA Tentative: Hrd anncr mention llpm mx @ 0201, tho! no ID hrd/
Three ID's hrd 0203-0212-0214 and off, no WCKY hrd 0147-0215
+ 1550 KOKA-LA Fair s/on 0533 3/1, then into NN pgmg. (BL)
1560 KPMC-CA On 0325-0340 w/ c&w ANG?? (Boyd) (3/3)
+ x 1570 WYEA-NH O/WSPD for 0050 s/off, new time (3/1) (Boyd)
1570 CHLO-ON Fair u/XERF w/SID & "1570-CHLO" and rr 0144 2/28 (BL)

sunrise & daylit

540 WRIG-VA s/on 2/26 0745 o/WARO-CBE c&w & c&w 2/23
1150 WKPA-PA o/WCUE w/ WBZY splash 0715 - MoR stuff & local sports & wx.
1380 WKY-KY On PSA pwr 0640 2/25 w/ local school closings & c&w
WACB-PA Way atop 0645-0600 w/ 104 wt/ PSA 2/23
1510 WAHT-PA o/WLAC w/ many spots for Lebanon (Pa) 0725 2/26
1520 WBNO-OH On 0620-0700 (PSA? - if so not listed anywhere) 2/23 ** I
doubt a PSA - think its reg. pwr - RJE
WCHE-PA) about even 0700 s/on o/WBNO, which was o/WKBW-WTTO TT's 2/23
WVOB-ND)
1540 WPME-PA W/local toy-radio (WNIO) on 0718 leaving 3 mins WPME copy
2/23
1570 WTCL-OH Testing w/ OC as late as 0755 2/23
WTOW-ND Testing w/ OC - only ID hrd 0624 2/23
WFUR-MI On w/ unlisted PSA pwr... 2/25 ** What time, and are you sure
it was a PSA??-RJE
WYTI-VA On w/ PSA pwr & c&w mx, lots of "Chevy" spots 2/25 **Time??
WPGM-PA S/on 0700 mentionnon non-commercial stn. 2/25 ** Huh?-RJE
WNCA-NC S/on 0700 w/ xr location & whole schtick 2/25
ALL SR ITEMS FROM WES BOYD.

changes

+ 740 WMBG-VA ex-WBCI
+ 860 CP -TN Sparta, 38583; 250 D1
+ 1070 KENR-TX CP: 10000/5000 U3
+ 1110 KBND-OR CP is on.
+ 1230 KLAV-NV CP: 1000/250 U1
+ KDAC-CA CP: 1000/250 U1
+ KRDG-CA CP: 1000/250 U1
+ 1310 CP -WV White Sulphur Springs, 24986; 5000 D1
+ 1340 KYLT-MT CP: 1000/250 U1
+ 1330 WHAZ-NY AMT: D1
+ 1380 KATO-AZ CP: 5000/500 U2 po:1230
+ 1400 KNOR-OK CP: 1000/250 U1
+ WCYN-KY CP: 500/250 U1
+ KAGN-MT CP: 1000/250 U1
+ 1430 WAGC-FL ex-WFTL
+ 1480 WTHI-IN CP is on. (Really, this time)
+ 1490 WANA-AL CP: 1000/250 U1
+ WVIM-MS CP: 1000/250 U1
+ KOKC-OK ex-KWRW
+ KWMC-TX CP: 1000/250 U1
+ 1460 WPVL-OH CP: 1000/500 U4
+ 1400 KIXX-UT CP: 1000/250 U1

F/E's

1st MM: WCLO-1230 ; 1st Tu: KVOL-1330; KWRP-860; 2nd Tu: KCHR-1350;
2nd MM: KDTH-1370; 3rd MM: WHSC-1450; 3rd SA: KCMN-1280; 3rd SU: WPDE-1444
4th MM: WGOE-1590; WBUS-1380; WIVE-1430; KLTZ-1240; 4th MM: KLTI-1560;
4th FR: WAFC-900;

30th of month (2/28 since no 2/30, hi) : KGMO-1550;
1st MM: WGHN-1370 ; 3rd MM: KWLA-1530;

new chex: 4th FM: 0645-0700: KWYR-SD-1260; TT (by BOYD)
3rd MM: 0630-0645: KTXJ-TX-1350; TT (by Kamp)

call applications

920 KEZU-SD req. KKLS
1440 WHRN-VA req. WOHN

Guess thassit for this time - more next, so 73,

RJE
RJE

nrc log updater no. 4 (vol. 3)

570 KVOK-AK new call
580 WKAQ-PR ADDR: as in original log. Delete previous correction. (Box 468 is correct)

KDAV-TX NET: Ae
CKWW-ON ANT: U4
590 KBHS-AR CP is on.
630 CFCC-ON ADDR: Keil Dr.
690 WAPE-FL NET: Ae
730 WACE-MA ADDR: Box 2521, Springfield, 01102

KURL-MT p170
WOHS-NC p206
KBOY-OR p230
740 KSSS-CO SCH: delete AN
790 CHIC-ON ANT: U4
850 WIDE-AL CP is on.
900 WGOK-AL p426
KH0Z-AZ NET: Ae
WCRY-GA p213
WIAM-NC p500
WCPA-PA p80
KUEH-WA p97
CJKL-QU clarify call
910 KPOF-CO SCH: 0600-0000
930 WGNR-PA p500
WGNT-WV clar. call (po:

2130 KELY-NV SCH: 0900-2100 (silent Sundays)
WFAS-NY NET: Ae
WCLO-WI ADDR: One South Parker Dr.; ZIP: 53545
CFHR-NWT DELETE
CFYT-YT DELETE
CP: -AZ Globe, 85501; 1000/250 U1
KOAD-CA CP: 1000/250 U1
WOMT-WI SCH: 0600(0800)-0105 (0005)
KELK-NV SCH: 0830-0200
WEDG-TN CP: 1000/250 U1
WJMC-WI SCH: 0700(0830)-2300
CFNW-NWT DELETE
WILXY-OH SCH: SP: MM 0200-0530
2260 WSHF-AL NET: Ae
2290 WSHF-AL NET: Ae
1330 WFBG-SC SCH: S/off 0108
1330 WSYB-WT NET: N
1340 KWXY-CA CP: 1000/250 U1
KROC-MN SCH: 24 hrs, SP MM 0100-0630; ADDR: 601 1st Ave. SW
WLDY-WI SCH: 0700(0800)-0000 (2200)
WRIT-WI NET: Ae
1350 CKOV-BC DELETE
1360 WCHQ-PR CP is on
1370 KAWW-AR CP is on.
1380 KUDL-KS ZIP: 66203
KAGE-MN p1111 (corrected)
1100 WLLI-CT SCH: 0530(0600)-0100(2300)
WLTN-NH CP is on.
KTMC-OK CP: 1000/250 U1
WATW-WI ADDR: Box 269
WBLF-WT SCH: 24 hrs., SP MM 0200-0600
WBLF-WI ADDR: Radio Park; SCH: 0645(0800)-0000
CKGB-ON DELETE CP
WPEO-AL NET: Ai
1410 KTOB-MN SCH: 24 hrs. & 3P
1420 WIK -OH SCH: SP 3rd MM
1440 WQOK-SC SCH: 24 hrs; SP Sun & Mon 2330-0448
1450 KEST-CA ex-KSOL
KPSI-CA ex-KPAL
1430 WFL-FL ex-WSLC
1430 KONE-NV NET: Ae
WSP-PA SCH: 24 hrs.
WSP-RI SCH: 0500-0000
KFTZ-WI SCH: 0630(0700)-0105(2305)
ADDR: 18 W. 1st St.
WDDO-WI SCH: 0530-2330

1460 KYSN-CO SCH: 24 hrs, off MM
1470 KWEY-OK DELETE LISTING
1480 WGSB-IL NET: Ae
1490 KGUC-CO CP: 1000/250 U1
WMBK-FL CP: 1000/250 U1
KJIN-LA NET: Ai
KLGR-MN SCH: 0640(0755)-0100
ADDR: Drawer D
KXRA-MN ADDR: 1310 Broadway;
SCH: 0653-0105(0005)
WLDN-NJ SCH: 0700-2310
WKVT-VT SCH: 0500(0728)-0110 (0000)
KVAC-WA CP is on
WGEZ-WI SCH: 0630(0700)-0100 (0000)
WLCX-WI SCH: 0700(0800)-0200
WOSH-WI SCH: 0600(0700)-0200 (0100 Sun & Mon)
1500 WDEE-MI SCH: SP: MM 0100-0500
WKBX-NC CP is on.
1510 CP -IN Wabash, 46992; 250 D1
KGA -WA NET: Ai
1530 CP -MS Yazoo City, 39194; 250 D1

1540 WKCB-KY CP is on
1550 CP -KY Greensburg, 42743; 250 D1; 1057 Legion Park Rd. p 3.3
WXVA-NV
1560 WSHY-IL Shelbyville, 62565; 250 D1 (CP - not yet on)

1570 KACE-CA p1111
WGHC-GA p298
WTFP-IN p285
KNDY-KS p135
WTLK-NC p500
KOLS-OK p 50
CP -OH Galion, 44833; 500 D3; ADDR: Knapp Block ex-4DNL; ADDR: Lane West; ZIP: 44400 (CP not yet on)

WTCL-OH
WJES-SC p211
WGLE-TN p203
1580 KLOU-LA SCH: 24 hrs.
1590 KWEY-OK RESTORE ORIGINAL LISTING
WTFP-TN NET: Ae
1600 CJRM-OK FMR: 10000/10000
CJRM-OK CP: 24 hrs

THIS UPDATER BRINGS THE NRC LOG UP TO DATE (WHEN USED IN CONNECTION WITH PREVIOUSLY-ISSUED CORRECTORS & UPDATERS) AS OF 3/1/71. NEXT UPDATER MID-APRIL.

Warsaw Asserts It Planted Spy in Radio Free Europe

WARSAW, March 9 (UPI)—Most Soviet-bloc countries years for the Polish section of lion yearly from the Central
The Polish press agency, P.A.P., have complained about its the so-called Radio Free Europe Intelligence Agency.
said today that Warsaw had activities and a persistent cam- in Munich.
planted an intelligence agent in paign to have it shut down has
Radio Free Europe's news room increased recently with the informed in detail about his MUNICH, March 9 (UPI)—A
in Munich and that his account Eastern Europeans saying that activity in the coming days by spokesman for Radio Free
would be made public by it has no place in a city where the press, radio and television. Europe said today that he was
Poland's news media. the 1972 Olympics will be held. The statement was made unable to comment on the
Radio Free Europe, a radio. "A Polish intelligence officer public by Warsaw's newspapers Polish report "until we have a
station" reportedly operated from the Ministry of Internal and the Warsaw radio. name to deal with."
with covert United States Gov- Affairs returned home Monday. On Jan. 23 Senator Clifford "We have had our personnel
ernment support, broadcasts to after fulfilling a special task in P. Case, Republican of New department checking and there
Eastern Europe. It employs Munich," the Polish agency Jersey, said that both Radio are indications that one person
Poles and other exiles in its said. Free Europe and Radio Liberty, has not turned up who should
broadcasting and translation. "Until the very day of his which broadcasts to the Soviet have been at work Monday,"
rooms, return, he worked for many Union, have received \$30-mil-he said.

Come to Yaddan April 10 and 11 and join the fun. Meet all the
Yaddins, see a Beverage, try a Space Magnet, drink a beer, eat
a sandwich, be a doorknob.

DO IT YOURSELF NRC LOGS!!

Margins in your NRC Log running over with corrections and update material? Do you curse HQ at least once a week for not having left more blank space in the Log? Wanna start doing the next Edition of the Log now? One U.S. dollar will get you 50 blank NRC Log pages, punched to fit into your Log. In the event you run out of space for corrections on a particular page, all you need do is "spread" the comb on your Log, insert blank pages where needed, and reassemble. Write direct to HQ for spare blank pages and we'll ship 'em out via First Class mail right away...

"So next time we'll leave more blank space, honest!!"



SUPREMACY RATINGS

Norm Maguire
1420 Columbia Drive NE
Albuquerque, N.M. 87106



##	D _{Ker}	Location	T.V.	CTYS	For.	South Americans	Best
41	L. Kruse	Iowa	4035	15	77	3	HCJE Ecuador
42	W. Stone	Ontario	2910	32	2497	24	CE-73 Chile 730
43	F. Maguire	New Mexico	2842	54	394	15	HJAB 1190 250w
44	G. Allen	California	2737	57	503	31	LR-5 Argentina 850
45	S. Drake	Pennsylvania	2400	56	311	10	HCJG-1 1145 400w
46	H. Holbrook	Maryland	2275	96	692	89	NYR-5 Brazil 1270 1kw
47	F. Wheeler	Pennsylvania	1626	23	73	7	LR-5 330 10kw
48	R. Sperry	Connecticut	1611	40	235	15	CC-2B Uruguay
49	R. Anderson	Virginia	1438	100	423	78	HC2IA
50	A. Ruff	Quebec	1374	54	1188	43	CP-73 730
51	D. Reynolds	California	1345	75	465	70	NYK-9 1270 10kw
52	C. Freeman	California	1337	61	336	26	PRG-2 Brazil 1040
53	A. Merriman*	Virginia	1249	80	268	22	TFY 760 10kw
54	R. Luton	North Carolina	1039	23	142	4	HCJE 700
55	J. Starr	Ohio	1014	47	166	27	PRE-9 340
56	E. Gustafson	Illinois	828	94	284	32	CT-138 5kw
57	D. Whatmough	Ontario	814	8	713	1	PJB Ponaire 800
58	E. Reynolds	Missouri	800	24	100	4	LR-3 950
59	F. Waldron	New Jersey	714	28	161	5	R. Trinidad 730
60	R. Wood	Louisiana	629	51	?	27	CC-140 1400 10kw
61	D. Phillips	Kentucky	557	25	40	9	HJKI Colombia 605
62	C. Mohr	New York	539	18	99	1	FJB 800
63	G. Srinireour	Ontario	516	46	431	9	CP-34 Bolivia 10kw
64	T. Davisson	Ohio	474	11	38	1	R. Trinidad
65	R. Eddie	Missouri	443	9	30	2	PJB 800
66	D. Erickson*	California	442	6	9	--	
67	R. Richman	New York	412	10	60	1	FJB
68	B. Dangerfield	Pennsylvania	408	109	333	42	ZP-14 Paraguay
69	M. Sorensen	Ontario	379	8	291	1	FJ7 800
70	D. Carlson**	Illinois	320	11	35	2	R. Trinidad 730
71	E. Wilkinson	California	305	61	290	65	HCVE-4 1395
72	R. Leamy	Pennsylvania	301	41	106	5	HCJF 700
73	J. Burger	Holland	291	60	281	3	HJDF 1020
74	J. Renfrew	Connecticut	288	16	36	?	ORTF 640 20kw
75	J. Neff	New York	280	28	84	4	R. Trinidad
76	H. Robie	Massachusetts	255	84	142	14	LRA
77	J. Pejza	California	207	18	38	4	HJFF 121D
78	C. Reno	Connecticut	106	22	58	19	SRS Surinam 725 50kw
79	E. Karchevski*	California	83	5	4	--	

Congratulations to Jerry Starr in passing the 1,000 verie mark. Hope everyone is having a fine D_{Ker} season as several members have added new countries since last listing. ## indicates year started D_{Ker}. ext month, best North American verie and N.A. totals. Please send all mail to me in Hawaii: 2877 Kalakaua Ave., Apt. 704, Honolulu, Hawaii 96815. 73 and Aloha,